



Catalog



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WATERSTOP INJECTION SYSTEMS



Choosing Your Products:

Choosing the product with the correct properties for the job is the first step to a successful and long lasting leak-seal and crack injection application. Material with the appropriate physical properties simplifies the application and provides for long term durability. SealBoss offers a wide selection of hydrophilic and hydrophobic products with varying degrees of properties such as viscosity, expansion rate, reaction time, flexibility, density and hardness. Please contact your SealBoss representative for more info.

Hydrophobic & Hydrophilic Product Groups

SealBoss 1510/1570/1570LV/1500 Water Stop Foam grouts are hydroactive **hydrophobic** products that share common properties. Water/moisture initiates the reaction only, but the cured product is insensitive to moisture and of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness and does not shrink or swell. Products are not effected by freeze/thaw and wet/dry cycles. **SealBoss 1640 Foam & SealBoss 1403 PUR Resin** are **hydrophobic products** that do not require water to react.

SealBoss FlexGel & SealBoss 2400 Acrylate (Acrylic) Gel are hydrophilic products. Water/moisture initiates reaction and the product is capable of absorbing and incorporating water post cure, thereby swelling and forming a waterproofing flexible gel or foam. Hydrophilic products are recommended for applications in permanently moist environments, curtain/bladder injection, and capillary injection.

Viscosity

SealBoss 1510/1570/1500 Water Stop Foams & Flexgel are of low viscosity for good penetration into concrete cracks and joints. For hairline cracks, capillary fissures and tight cold joints we provide super low viscosity products such as **SealBoss 1570LV Water Stop Foam, SealBoss 1403 PUR Resin, SealBoss 2400 Acrylate (Acrylic) Gel**.

Accelerator Adjustable Hydro Active Expansion & Reaction Time

The reaction times and expansion rates of **SealBoss 1510/1570/1570LV Water Stop Foams** are **adjustable**



by adding a specific amount of SealBoss accelerator. The gel times of **SealBoss 1403 PUR Resin & SealBoss 2400 Acrylate (Acrylic) Gel** are also adjustable.

The reaction time and expansion rate of a foam determine the water stop and penetration properties of the product. Faster reaction times and expansion benefit water cut-off properties, slower reaction times enhance product penetration in the substrate.

Water-reactive polyurethane grouts expand on contact with water by the resulting CO₂ gas. The foam expansion creates a **compression seal** which supports the sealing properties of the injection grout. Rapid expansion helps to cut-off high-volume active water leaks and benefits curtain/bladder grouting. The expansion rate of a foam determines material consumption, cell structure and density of the cured product. It should be considered that expanding foams can create a significant amount of pressures. Our best-selling, industry standard **SealBoss 1510 Water Stop Foam**, can rapidly expand between 5 to 50 times (50X) of free rise product volume when catalyzed accordingly.

Flexibility & Density

For most injections in joints, cracks and some curtain/bladder wall grouting that do not experience much movement, semi flexible standard products with high expansion rates and higher compressive strengths such as **SealBoss 1510 Water Stop Foam, SealBoss 1500 2-Component Water Stop Foam** are used. Structures exposed to thermal expansion and contraction or dynamic loading resulting in increased movement may require a flexible formulation grout such as **SealBoss 1570/1570LV Water Stop Foam, SealBoss 1403 PUR Resin or SealBoss Flexgel**. **SealBoss 1403 PUR Resin** is also recommended as follow-up and final seal injection in critical foam injection areas.

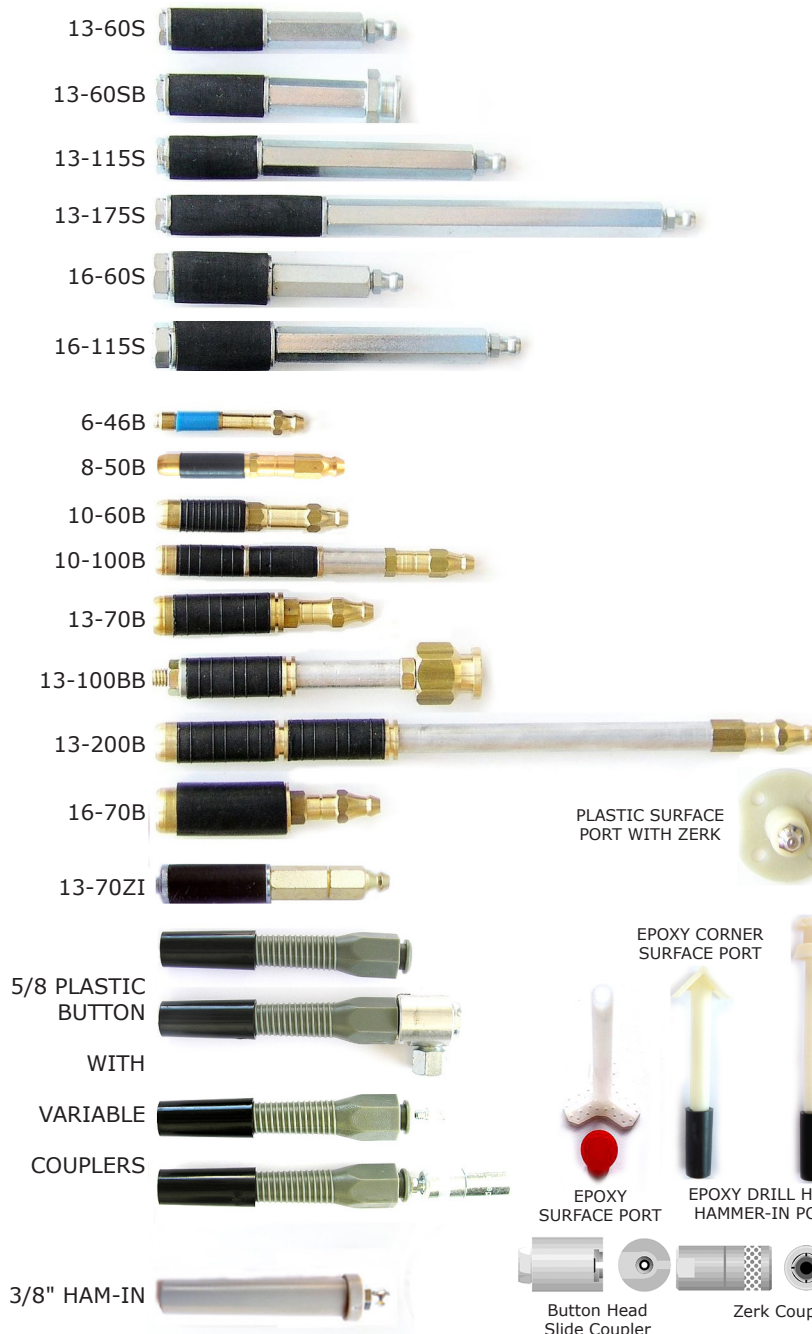
Good product density, complete penetration and adequate product consumption make for a successful leak-seal injection. Injection pressures must be high enough to provide for good material travel, proper penetration and density. We recommended to always monitor injection pressures and material flow closely. When done correctly, the high density injection material will form a compression seal and provide for a or a long lasting application.

SealBoss®

Choosing Your Packers:

SealBoss® Mechanical Packers

Industry *Leading* Selection



Professional Packer & Injection Accessories

Code	Size	
S-TYPE		
13-60S	1/2x3 in	13x70 mm
16-60S	5/8x3 in	16x70 mm
13-115S	1/2x4 in	13x100 mm
13-175S	1/2x6 in	13x150 mm
16-115S	5/8x4 in	16x100 mm
B-TYPE		
13-70B	1/2x3 in	13x70 mm
16-70B	5/8x3 in	16x70 mm
10-60B	3/8x2.5 in	10x60 mm
8-50B	5/16x2 in	8x50 mm
6-46B	1/4x1.8 in	6x46 mm
13-100B	1/2x4 in	13x100 mm
16-100B	5/8x4 in	16x100 mm
13-150B	1/2x6 in	13x150 mm
16-150B	5/8x6 in	8x150 mm
13-200B	1/2x8 in	13x200 mm
16-200B	5/8x8 in	8x200 mm
ZINC-TYPE		
13-70ZI	1/2x3 in	13x70 mm
PLASTIC BUTTON-TYPE		
5/8BPB	5/8x4 in	16x100 mm
HAMMER-IN PLASTIC PACKERS		
HAM3/8	3/8x3 in	10x70 mm
SURFACE EPOXY PORTS		
SPCORNER	1/4 in	10 mm
HAM1/2-EP	1/2 in	Hole: 13 mm
		Port: 10 mm
SPEPTRI	1/4 in	10 mm



13-100AL



Heavy Duty Drill Bits

SealBoss® Leak Seal & Water Stop Crack Injection Guideline



SealBoss has been a leader in the injection packer technology since 1988.

Mechanical packers and injection ports are the gateway to successful injection. SealBoss supplies injection packers to customers worldwide. We offer mechanical packers varying in all key designs including Packer Material Type, Diameter, Length, and Ball & Valve Location.

Packer Material Type

Mechanical Packer Body

SealBoss mechanical packers are made from steel, brass, aluminum, zinc, various metal alloys and plastic. There are important differences in design and functionality for a variety of products, substrates and objectives. Contractor preferences and comfort levels are also a deciding factor.

Steel

SealBoss offers many heavy-duty steel packer variations. Steel offers the most strength and good resistance to oxidizing components found in acrylate/acrylic gels. SealBoss offers a wide variety of steel packers to suit all injection needs. Most packers are equipped with a rubber sleeve, some have a larger washer on the top of the packer to assist in the installation.

Brass , Aluminum, Zinc

Brass, aluminum & zinc packers are economical alternatives to steel packers with similar functionality. The overall strength is lower than steel, brass, zinc and aluminum packers bodies are softer. In some designs, the shaft can be broken off by hammer after injection thus leaving a flush surface. This is an advantage if removal of packer prior to patching is not specified.

Plastic

SealBoss Plastic packers come in many versions. Some permit low resistance, high volume product flow and very quick installation.

Button Head / Button Top

The SealBoss 5/8" (16mm) Button Head packer offers high volume flow with a button head (button top) coupler to minimize leakage. Insert the plastic sleeve in the drill hole and thread the plastic packer into the sleeve for a compression fit via the hex button head. Anti return valve: A steel ball placed in the shaft of the packer prevents product back-flow.

Hammer-In / Bang-In

The SealBoss Hammer-In port (Bang In Packer) is 3/8" (10mm) or 1/2" (13mm). The ports are inserted into the drill hole with the tap of a hammer. The plastic body of the packer creates a compression seal. The packers are set very quickly increasing productivity on the job site. Due to the lower friction fit, injection pressures are limited with this packer type.

Diameter, Length, Valves

Diameter

As a rule, and in addition to the packer material, a larger mechanical packer diameter permits higher injection pressures. 5/8" (16mm), 1/2" (13mm), 3/8" (10mm) and 1/4" (6mm) are most common diameters for man made structures, larger diameters are mostly utilized in rock and other natural structures.

Caution: Packers and ports can exit the drill hole at high velocities under pressure. Correctly installed packers of the right dimensions will minimize this probability. In general, larger diameter packers prevent blow-out better than smaller packers.

The size of the drill hole equals the diameter of the packer. We discuss diameters and drilling angles and techniques in detail in our **1-2-3 at 45 Degree Crack Injection™ Guideline**.

Length

The shaft of the mechanical packer must be recessed into the drill hole deep enough to create an adequate compression seal in the substrate and to prevent spalling of the substrate during installation and injection. For a weak substrate and deteriorated concrete longer packers of 4" to 6" (10-15 cm) are recommended. During injection, the drill hole itself acts as a channel through which the product will travel. However, extended shaft length can be advantageous when the contractor is attempting to bridge a gap in the substrate. For such cases SealBoss provides special length packers to carry the material to a specific point within the substrate.



Low & High Pressure Valves

A ball valve is found in most packers to prevent material back flow on disconnecting the pressure line. In standard high pressure valves the ball is pressure loaded with a small spring. Low pressure valves omit the spring to permit lower injection pressures.

Top Mounted Valves

Top mounted valves include zerk-valves and button-head (button-top) valves. Button-head valves offer the most secure connection with minimal leakage. Some top-mounted zerks are supplied separately to observe port-to-port travel of injection grout during the injection process. Once material is leaking from the next packer(s), the contractor immediately installs the valve at that time.

Bottom Mounted Valves

Bottom or stem installed valves allow removal of the top portion of the packer early after injection while keeping the drill holes sealed for patching of the hole with the remainder of the packer in the substrate.

As a rule packers should not be removed before the injected product has fully cured.

Surface Ports

Surface ports are typically used for epoxy injection. These ports are glued to the surface or glued inside a drill hole. Many surface ports have an open/valve free design to work with quick release connectors with a multiple port injection option. They are typically supplied with caps to prevent epoxy back flow. There are also surface ports with a zerk fitting for a very secure fit at higher injection pressures. We also offer corner ports for placement in 90 degree construction corners.












SealBoss has been offering an industry leading selection of packers since 1988. Furthermore we provide all the hoses and connective equipment necessary. We carry a very large inventory and strive to supply you with the most suitable product. We also custom produce almost any design to meet our customers needs.

Choosing Your Pump:

SealBoss offers a comprehensive selection of professional and proven injection and dispensing pumps to suit your needs. The right pump is determined by many factors including job size, product components and properties, injection volume and pressures, and your injection frequency.

For injection grouts and gels, single and two component high-pressure pumps are utilized. Our gel pumps include a separate water flush pump. SealBoss offers various designs including piston and membrane pumps, with electric, pneumatic, drill-operated, or hand powered operation. Please contact your SealBoss technician for more info.



Product Name	Application	Benefits	Image
SL 1C Signature Line	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Top of the Line - Professional Use • Hopper Design (5 gal), Easy Cleaning • Electric Motor • Diaphragm System • 3000 psi - 1 Component 	
SLP 1C Signature Line	High & Low Pressure Polyurethane Injection Pneumatic	<ul style="list-style-type: none"> • Top of the Line • Pneumatic • 3200 psi • 1 Component 	
SLP 2C Signature Line	High & Low Pressure Polyurethane Injection Pneumatic	<ul style="list-style-type: none"> • Top of the Line • Pneumatic • 1500 psi • 2 Component 	
SLP 2C-5G Signature Line	High & Low Pressure Polyurethane Injection Slab Lifting GeoTech Soil Stabilization	<ul style="list-style-type: none"> • Top of the Line - Professional Use • Economical Cold Foam Lifting, Injection • Electric Motor • Dual Piston System • 4000+ psi • 2 Component, Ratio: 1:1 	
SLP 3C Gel Pump	High & Low Pressure Acrylate (Acrylic) Gel Injection	<ul style="list-style-type: none"> • Top of the Line - Stainless Steel • Pneumatic • 3200 psi • Superior 2 Component Gel Pump • Ratio: 1:1, 1 Comp. Flush Pump 	
IP2C Stainless Steel Gel Injection	High & Low Pressure Acrylate (Acrylic) Gel Injection	<ul style="list-style-type: none"> • Top of the Line - Stainless Steel • Pneumatic • 2600 psi • Superior 2 Component Gel Pump • Ratio: 1:1 • 1 Component Water Flush Pump 	
PA3000 The Epoxy Standard	High & Low Pressure Epoxy Injection & Polyurethane Resin Injection	<ul style="list-style-type: none"> • Top of the Line - Professional Use • Pumps EP and PU resin • Pneumatic • 850 psi • 2 Comp., Ratio: 2:1 Stand., 1:1 Custom 	
P3003-2C PU & EP	High & Low Pressure Epoxy & Polyurethane Injection Piston System	<ul style="list-style-type: none"> • Versatile, Pumps EP and PU Resin • Electric Drill Operated • Dual Piston System • 4000 psi • 2 Component, • Ratio: 2:1 standard, 1:1 custom 	
P2002 Injection Standard	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Light Weight, Modular Design • Electric Drill Operated • Single Piston System • 6000+ psi - 1 Component 	
IP495	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Larger Project, Extended Injection • Electric Motor • Piston System • 2500 psi - 1 Component 	
HP100	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Hand Operated • Easy to operate • Single Piston System • 1800 psi - 1 Component 	



1-2-3 at 45 Degree Crack Injection™

Step 1: Mechanical Packer Hole Prep – Drill and Prep

Gear

Wear adequate protective gear and goggles at all times and follow data sheet and SDS instructions.

Clean

If necessary, clean the face of the crack or joint by wire brush, pressure washing, or similar. A clean surface will help to identify cracks and problem areas more clearly.

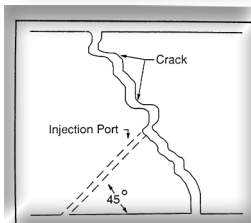
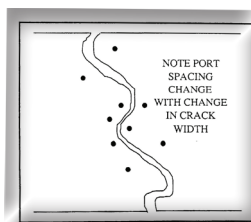
Spacing

Identify the drill hole spacing, pattern and depths. Depending on the width of the crack, space the packers at an approximate distance of 6"-12" (15cm-30cm). In hairline cracks the waterstop product won't travel as far which results in tighter packer spacing, while wider cracks permit for easier flow and wider packer spacing. Stagger drill holes from one side of the crack to another.

45 Degree Angle Drilling

Remember the **1-2-3 at 45 Degree Crack Injection™** guideline! The number 45 represents the 45 degree drilling angle for drill holes. Based on 45-45-90 Right Triangle Geometry, SealBoss® recommends following the proven industry standard of 45-degree drilling as the best approach to intersect the crack halfway through the structure. This is achieved by not drilling directly into the crack, but by dividing the substrate's thickness in half and then starting your drill holes that distance to the left or right of the crack (in the case of a vertical crack) or above or below the crack (in the case of a horizontal crack). Drill back towards the crack with the goal of intersecting it at the half way point into the substrate. This technique permits the "inside out" product flow from the middle of the substrate to the front and back of it, establishing a permanent compression seal within it.

For example, on a 10" thick concrete wall you'll move off the crack by 5" (8cm-10cm) and drill at a 45-degree angle towards the crack to hit your target. It helps to make an initial straight drill pilot hole and then tilt the drill to the desired angle. Typical drill spacing along the surface of the crack ranges from 6-12 inches (15cm-30cm) depending on the thickness of the crack. Hairline cracks require closer spacing than larger cracks because the material will not travel as far. Stagger the drill holes from one side of the crack to another in a stitch pattern and intersect the crack while drilling. In structures thicker than 6 inches (10 cm) regular sized packers of 1/2" (13mm) and 5/8" (16 mm) are typically used. Thinner structures may require packers of lesser diameter (such as 5/16" (8mm) and 3/8" (10mm) packers) to prevent spalling of concrete during drilling and while setting and tightening the packers. In thin structures of less strength it may be advised to drill straight into the crack.



Foam, Resin, Gel

Polyurethane & Acrylate Technology

SealBoss® polyurethane and acrylate injection systems are designed for concrete crack, joint waterproofing and curtain, bladder injection applications as commonly found in concrete and masonry structures such as tunnels, dams, parking garages, basements, elevator shafts, pools and planters and many more.

Straight Drilling

Drilling into joints, such as concrete tunnel segments, is mostly performed in a straight fashion. Also, concrete structures of less than 6" thickness may not permit angle drilling as the concrete can spall. The same may occur with very tight cracks. In such conditions, it is advised to drill and install packers directly into the crack without penetrating the structure completely.

Rebar

Most concrete structures are full of rebar steel reinforcement for structural strength. In a perfect, crack free structure, concrete protects the rebar from corrosion by shielding it from moisture and air and providing a higher pH environment. However, as cracks develop the shield is compromised and air and water lead to carbonation and the rebar corrodes and expands while forming rust. The expansion of rusted rebar creates high forces against the concrete resulting in deterioration, more cracks and spalls. Chemical grout injection minimizes these processes.

Rebar slows down the drilling process. As your drill bit makes contact with rebar the sound changes and the progression will slow down or may stop. Some drill bits permit drilling through rebar. This is generally not recommended and may even be prohibited. At this point moving the drill hole is the only option. If you hit rebar repeatedly, try drilling straight into the crack. Dead end drill holes need to be patched and sealed prior to injection to prevent leakage.

Drill Dust & Flushing / Cleaning the Holes from Concrete Dust and Debris

While drilling deeper holes pull your drill bit out in repeatable motions, to remove the drilling dust and prevent your drill from binding up.

Debris from drilling can thicken the product during injection, resulting in higher injection pressures and reduced penetration. It is best practice to remove concrete dust and debris from the drill holes by flushing with a water hose until clean water is observed. Simply use a water hose to flush debris from the hole. Vacuuming out the dust can also be helpful if flushing is impossible. Blowing out the debris is another option, however, be aware that dust can be an inhalation hazard and appropriate gear is mandatory. Cleaning of holes won't be necessary if water is actively running from your drill holes.



Step 2: Mechanical Packer Installation – Install and Flush

Mechanical Packer Basics

The packer and the drill holes must be of a quality that can withstand the injection pressures without leaking or moving inside the crack. Caution: Even the best packer may break loose or leak under pressure in some circumstances. SealBoss® Mechanical Packers are the recommended choice for pressure injection. They come in many sizes and designs to suit your job. Mechanical packers have a threaded shaft with a rubber base. Following insertion, tightening of the threaded shaft will compress the rubber inside the drill hole resulting in a compression seal. Typical diameters of these packers can range from 1/4–3/4 inches (6mm–19mm) with industry standards being 3/8–5/8 inches (10mm–16mm). In poured concrete substrates, the drill hole will act as a solid channel which will direct the resin to the crack which permits the usage of shorter length packers. In substrates which may exhibit voids such as block wall, stone and brick, SealBoss® recommends using longer packers which provide a definite grout delivery channel to the crack being sealed.



Over Head Injection
with
Button Head Packers

Mechanical Packers Installation

Mechanical packers are tightened to seal against the drill hole by expanding the rubber seal. You may pre-tighten the packer by hand to snugly seat the rubber all the way (approximately 1/4"/6mm) inside the drill hole. Correct installation will prevent concrete from cracking around the outside of the drill hole. Depending on the packer design it is highly recommended to use a suitable ratchet/nut or wrench to tighten the packer. Electric drivers are also popular. Tighten packers securely to withstand injection pressures! But do not over tighten.

SealBoss Hammer-In Ports

SealBoss Hammer-In Ports are also commonly used. Seat the ports with a hammer at moderate force. An electric driver or hand tool and suitable socket are used to screw the zerk fitting into the port. In most applications, hammer-in ports do not achieve the same injection pressures as mechanical packers and should only be used where maximum injection pressures are not necessary.

Packer Connectors

Typically packers are equipped with a quick connect system which is either of a zerk type or button head / slide coupler type.

Zerk Type Connector

The zerk type is most common. The applicator has to push the coupler over the zerk fitting and hold it in line with the packer. To disconnect the applicator "breaks" the connection by pushing the connector sideways.

Button Head / Slide Coupler

The button head type offers the most secure connection. The operator slides the coupler on and off the packer which makes the connection very secure, tight and less prone to unexpected disconnection and leakage. When done correctly the applicator does not have to hold the coupler in place. This is a big advantage in over-head injection and where large volume of product has to be pumped through one packer.

SealBoss® Packers

SealBoss® supplies an industry leading selection of injection packers and ports for all situations and needs. Please contact a SealBoss® representative to recommend the right packer for your job.

Flushing the Cracks Prior to Injection

It is recommended and very good practice to flush dry and not actively leaking cracks with water prior to injection. Flushing removes debris, indicates material flow, expected product penetration distance and provides moisture for the product to react with. If the crack is not accepting water, your hole may not be connected to the crack. In this case, drill from the opposite side of the crack and water test again. Flushing should be performed at lowest pressures possible to avoid damage to the concrete. Flushing is not always possible as the required equipment may not be available. In most cases, the injection will be successful without introducing extra water. Even if the product does not come in contact with water immediately, it will cure over time as natural moisture in concrete will stimulate a cure and hardening, possibly at a delayed pace.

Water Pump for Flushing

For flushing, it is recommended to have a dedicated water injection pump on site. **Never water test with the same pump from which polyurethane resin will be dispensed.** Polyurethanes are water activated and even small traces of moisture can cause pump failure.





Step 3: Injection Procedure with SealBoss® WaterStop Products

Important

Prior to injection please read instructions on the product datasheet. Before preparing the SealBoss® WaterStop Product for injection make sure your pump is fully operational and completely free of any moisture. It is good practice to flush the pump out completely with SealBoss R70 prior to introducing any resin/foam grout. Contact your SealBoss rep with any question you may have.

Injection Procedure

When your products are ready for injection have a cup handy to dispose of some resin to assure purity. **Always start the pump at the lowest pressure setting.** After coupling your grout injection hose to the secured and tightened packers, begin the injection process.

Starting from the bottom up, connect your injection line securely to the packer and begin with the lowest pressure that will move resin into the crack. Typically injection pressure will drop as soon as the material flows but pressure may have to be increased as products thicken and move into tighter cracks and fissures. Keep injecting at a slow rate as resin starts to show and flow from the crack. You may want to stop and restart the process for a minute to permit material to react and thicken. Monitor the consumption rate and stop injection when consumption equals leakage. A common observation will be the decrease of water flow from the face of the crack and/or reacting material exiting the face of the crack. This is a good indication of successful penetration and results. When the product does not move further along the crack disconnect and move to the next port. Utilize the shut-off valve at the end of your injection hose whenever the hose is moved. **Depending on the equipment you may have to manually stop the pump first.**

The applicator must ensure that adequate volume of material is injected into each crack to achieve good product density for a durable seal. It is advised is to inject 2-5 ports with observable penetration, and then go back to reinject those 2-5 ports once again to ensure adequate material consumption. Packers that still consume considerable amounts of product should be injected a third time or as much as necessary to create a permanent seal.

SealBoss® Oakum Technique

If too much resin is flowing out, or washing out due to high water flow, you can use resin soaked SealBoss® Oakum to create a temporary plug to give the product time to react, expand, and seal.

Caution: Be prepared, product may shoot out from the structure or around the drill holes. Packers may blow out. Due to the use of high pressure injection equipment, product may travel further than expected and may show up many feet from the point of injection. Small cracks may show up that had been invisible prior to the injection process.

Most commonly used hydrophobic polyurethane foam grouts

SealBoss® 1510 Water Stop Foam & 15x Accelerator
SealBoss® 1570 Water Stop Foam & 15x Accelerator

Adjust reaction times based on flow rate and application variables by adding 15x accelerator accordingly in the range of 2-25%. Most common crack leaks are repaired with a 5% solution. This is roughly 7oz. of SealBoss® 15x Accelerator per 1 gallon of SealBoss® 1510 or SealBoss® 1570. For gushing leaks, 25% accelerator solution will provide quick results.

Other hydrophobic PUR products

SealBoss® 1570LV & 1500 Water Stop Foam
SealBoss® 1500 & 1640 Hot Shot Cartridge System
SealBoss® 1403 PUR SLV Injection Resin

Hydrophilic injection products

SealBoss® FlexGel and
SealBoss® 2400 Acrylate Gel

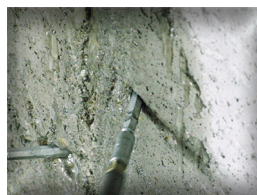
Quality Injection Job



Staggered port placement on vertical crack.

Often injection is a two man job – you need someone operating the valve and hose-and another manning the pump. Create a dense seal! It is quite possible to achieve differing results on the same injection application due to inadequate material consumption alone. If the crack is not accepting any product, you may not have drilled deep enough or the crack is directed in the opposite side. In this case, drill from the opposite side of the crack and ensure to intersect the crack.

Packer Removal



Packer placement, staggered, at 45 degree angle.

After allowing the material to fully cure, packers can be removed by loosening the shaft. Some applicators leave the rubber base in the wall and then patch the drill hole while others remove the entire packer prior to patch. In some injection applications packers even remain in place permanently. This is the applicator or owner's preference. A final cleanse of the face of the crack is necessary to remove cured product via wire brush, pressure washing, etc. The substrate is now ready for final finish.

SealBoss® R70 Pump Flush for Clean-up



Hose set coupling to installed mechanical packer.

DO NOT CLEAN WITH WATER. If permitted on the job, flush all dispensing equipment initially with a small amount of solvent such as xylene to cut the product. Follow this step by flushing generously with SealBoss® R70 Pump Flush & Cleaner for protecting hoses and for pump lubrication purposes. Do not use solvent for the final flush as it will diminish the life of your equipment. Exception: Equipment for SealBoss® 2400 Acrylate is cleaned with water. See data sheet for details.



SealBoss® Curtain & Bladder Injection

Gear & Instructions

Wear adequate protective gear and goggles at all times and follow data sheet and SDS instructions.

Procedure

Identify the water source and pattern of moisture intrusion. Most block, stone, and brick leaks are caused by failed positive side membranes. Block walls are often unfilled which also creates voids and pockets for water intrusion.

Drill Grid Pattern

Drill 3/8 or 1/2 inch holes along the water marks at 2 feet intervals. Moving up the wall, continue to space the holes at 2 feet intervals creating a grid pattern of injection holes as seen in the image. These drill holes are to penetrate the substrate at full depth creating a channel in the wall through which chemicals can be injected.

Packer Install

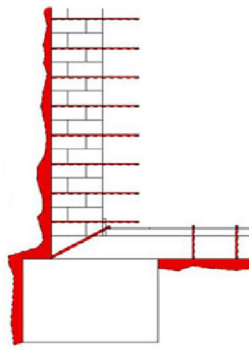
Once the grid pattern is created, mechanical packers may be inserted into each one. In the case of block walls that are not filled adequately, longer packers are recommended providing a full length channel which ensures that material reached the back side of the wall. It is not recommended to simply fill the blocks with materials – block wall curtain injections require material travel through the entire wall. In the case of older and disturbed stone or brick structures, however, it is also common to inject the structure itself as seen to the right.

Injection Products and Pumps

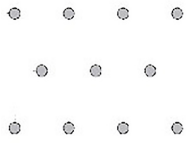
Based on the jobsite and application, SealBoss® may recommend using specific products such as hydrophobic **SealBoss® 1510 Water Stop Foam**, **SealBoss® FlexGel** hydrophilic polyurethanes or **SealBoss® 2400 SLV Acrylates**.

SealBoss® FlexGel can react with large amounts of water forming a hydrophilic foam or gel, providing a membrane like positive side shield. The expand and contract based on the surrounding water content. **SealBoss® FlexGel** can be injected through single component, high pressure equipment with the presence of moisture behind the substrate. Water can be fed prior or simultaneously if needed. Dual component and multi-ratio equipment can also be used. FlexGel will react in ratios of 1:2–1:15 (FlexGel: H₂O).

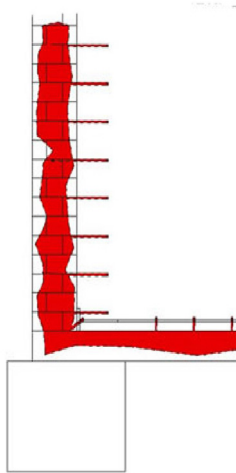
SealBoss® 2400 SLV Acrylate is a hydrophilic water thin injection material that offers specific characteristics.



Block wall curtain injection theory reinstating positive side membrane



Grid pattern of injection sites, typical of curtain or bladder injection. Two feet on center



Injection of internal substrate, commonly found in deteriorated brick and stone

Curtain or Bladder injections refers to chemical injection that is used on block, brick, stone and concrete substrates where the applicator observes large area below grade moisture intrusion and wetness through the entire substrate opposed to intrusion through a specific crack and/or joint.

Because of the immense costs associated with excavation and application of a new positive side membrane, the Curtain or Bladder injection method is an economically viable solution for repair. By drilling a grid pattern of holes the entire way through the substrate, applicators can repair the failed membrane from the inside of the structure.

The product must be pumped via a dual component stainless steel pump such as the SealBoss® IP2C or SealBoss® SL3C Gel Injection Pump. The uncured product can be cleaned off with water. The machines are equipped with a dedicated water flush pump unit.



Application

Because backfill and soil consolidation behind the structures are often unknown, applicators must monitor flow rates and material consumption closely. For example, a typical, estimated coverage for SealBoss® FlexGel hydrophilic polyurethane is 9 square feet/gallon. This equates to approximately 1/2 gallon injected into each drill hole. If large voids are expected behind the wall, expansive hydrophobic polyurethane such as SealBoss® 1510 WaterStopFoam can be injected initially in order to fill these voids and provide a solid mass against which the hydrophilic gel can be injected.

Inspection

Some time may be required to assess the coverage of the repair. Job site inspection following subsequent wet/dry cycles may require spot injections to the original grid pattern and/or to the migrating moisture pattern as the moisture intrusion is eliminated.



SealBoss® Professional Kits

- Affordable for beginning applicators on smaller and manageable projects
- Low investment for high return repair system offering
- Great way to familiarize yourself with SealBoss® Concrete Solutions
- Additional revenue stream
- Niche system solution creating company differentiation
- Minimal investment for industrial grade system
- Industrial grade pump for future applications
- Adequate injection pressures and product flow equal better results
- Support of established and valued SealBoss® brand
- Significant amount of referral business



System Kit Advantages

It is important to note that the increased pressures and higher quality dispensing equipment of SealBoss® Professional Starter Kits achieve more favorable results for these repairs. As mentioned in the application guideline, the amount of material inside the crack or joint is paramount to the prolonged success of the repair. By pumping at higher pressures combined with re-injecting each packer one or two times, you will inevitably observe better material consumptions and travel, which creates a better density upon expansion, which creates a more closed cell structure which provides long-lasting results.



System Solutions

SealBoss® offers complete system solutions and our Professional Starter Kits provide the applicator optimal probabilities for successful repairs. While the kits offer significant convenience and savings, all products and materials can be reordered individually for future projects. Professional Starter Kits include the products necessary for an industrial or commercial project including a high pressure, industrial grade pump.

Enjoy Benefits of Approved Applicator Certificate

At this stage, you are now familiar with the SealBoss® Polyurethane Injection Systems, own an industrial grade pump, possibly through the purchase of a SealBoss® Professional Starter Kit, and may have repaired cracks and joints successfully and permanently! If you have found yourself at this stage in the repair industry, it is time to consider the SealBoss® Approved Applicator Program.

SealBoss® Approved Applicators Certificate

SealBoss® puts a considerable amount of resources into engineer specification efforts and commercial architects and builders. It is quite common for engineers and architects to require an approved applicator for specialty repairs such as the chemical injection systems. In an effort to increase quality assurance and adhere to engineer specifications, SealBoss® offers a training program for contractors.

Please contact SealBoss® with all questions concerning our progression program to become an Approved Injection Applicator. Take the time to experience our commitment to service and knowledge by speaking with one of our experienced representatives. We look forward to hearing from you soon!

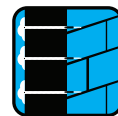
Professionalism, Competence and Knowledge



- Set your company up for success with an approved applicator certificate
- Qualify yourself in bid meetings with your certificate
- Gain access to the SealBoss® lead generation system
- Be included on SealBoss® applicator list for engineers
- Join the proven SealBoss® Team



202006



SealBoss® 1510 Applications

SealBoss® 1510 Water Stop Foam for infiltrating water:

- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Brick Construction, Geo Formations
- Pipe Intrusions
- Waste Water Tanks, Water Reservoirs
- Tunnels, Dams, Soil Stabilization
- Sewers, Manholes, Utility Boxes

Product Description

SealBoss® 1510 Water Stop Foam mixed with **SealBoss® 15X Accelerator** is a hydrophobic water-activated, (hydro-active), water cut-off grout and foam seal grout based on a MDI polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product is adjustable by the mandatory adding of a certain percentage of SealBoss® 15X Accelerator. A phthalate free formulation (F) is available. SealBoss® 1510 Water Stop Foam is NSF/ANSI 61 Drinking Water Contact Approved.

Upon contact with water SealBoss® 1510 Water Stop Foam reacts to a semi flexible foam while expanding its volume 30 to 40 times based on accelerator concentration. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness. The reacted material essentially does not shrink or swell.

Depending on the amount of accelerator added and the pressure of injection, SealBoss® 1510 Water Stop Foam reacts to a dense, closed cell, semi rigid material or a more open cell, semi flexible product. For best waterproofing results the closed cell structure is desired. SealBoss® 1510 Water Stop Foam is designed for sealing water leaks and cutting off gushing water. Due to the low viscosity of the material, SealBoss® 1510 Water Stop Foam offers good penetration in hairline crack injection. The product can be used for the filling of voids, cracks and honeycombing in stone or concrete structures, and can be applied as a non-shrink, high strength soil stabilization grout when used with a reduced accelerator ratio. The moisture content of the soil must be sufficient to ensure reaction. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1510 Water Stop Foam with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1510 Water Stop Foam and the SealBoss® 15X Accelerator are supplied separately to allow adjustment of gel-time. It is mandatory to add 15X Accelerator to ensure a complete reaction as designed. A higher percentage of Accelerator added will increase reactive speed, expansion volume and will lower the density of the product accordingly. The accelerator system offers a very flexible range of reactive properties, gel-time and expansion rate which make this product extremely versatile for many applications. Since the end product is of cellular structure, a higher density is favored for best waterproofing properties. Recommended

Water Activated, Flexible Polyurethane Waterstop & Seal Injection Foam Grout

SealBoss® 1510 Water Stop Foam Advantages:

- Advanced Formulation
- Up to 40 Times Expansion
- SealBoss® Product-Pump-Packer System Solution
- Unregulated For Transport
- Advanced Solvent Free MDI Formulation
- This Product is for Professional Use

mix ratios are between 3% and 10% of Accelerator added. In situations of high water flow rates and /or low temperatures, ratios may be increased to 25%. For hairline crack injection and soil stabilization ratios may be lowered to less than 5%. Observe temperature and humidity of the environment, since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule of thumb: High temperatures and high humidity decreased gel-time.

SealBoss® 1510 Water Stop Foam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.

All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect job site from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

1510 Water Stop Foam & 15X Accelerator

Technical Properties

	1510 WaterStopFoam	15X Accelerator
Appearance	Amber	Clear
Solids	100%	100% ASTM D 1010
Density, lb/gal - g/ml	1.12	0.93 ASTM D 3800-79
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F ASTM D 93-85
Viscosity, cps	160-250	20 ASTM D 2196
Mixing Ratio by Volume (2%-10% accelerator)	50-10 parts	1part
Solubility in Water	not	
Packaging	1 gal 5 gal 55 gal	0.1 gal 0.5 gal
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years - 5 gal / 55 gal 1 year - 1 gal units	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years

Reaction

Induction Time, 20°C / 68°F	30 sec (10% 15X added, Standard Concentration)
Gel time, 20°C / 68°F	70 sec (10% 15X added, Standard Concentration)
Induction Time, 20°C / 68°F	15 sec (15% 15X added)
Gel time, 20°C / 68°F	50 sec (15% 15X added)
Induction Time, 20°C / 68°F	5 sec (25% 15X added)
Gel time, 20°C / 68°F	30 sec (25% 15X added)

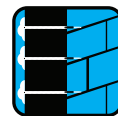
Properties Cured

Physical properties may vary based on water & accelerator ratios & conditions during reaction	
Expansion, %	600-4000 (6-40 Times) depending on Accelerator ratio & counter pressure
Elongation, %	10-20 ASTM D 638
Shrinkage, %	<1% ASTM D1042
Tensile Strength	65 psi ASTM D 638
Strength (Sand Filled)	>100 psi (>2% Accelerator, product reacted under pressure)
Corrosiveness	1550 psi
Appearance	Non-Corrosive
Toxicity	Yellow-White Polyurethane Foam
	MDI Based, Good Resistance to Chemicals
	Resistant to Most Organic Solvents,
	Mild Acids, Alkali and Micro Organisms



Limited Warranty Policy and Disclaimer for Products Supplied and/or Distributed by SealBoss Corp.: SealBoss Corp. Products are for Professional Use. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use. SealBoss Corp. warrants supplied / distributed products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss Corp. shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. SealBoss Corp. shall not be responsible for use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, UV damage, excessive temperature exposure, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and / or physical movement of the substrate or structural defects are also excluded from the limited warranty. SealBoss Corp. reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Recommendations and statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller. SealBoss Corp. reserves the right to change the properties of products without notice.

Revised 202012



SealBoss® 1570 Applications

SealBoss® 1570 Water Stop Foam for infiltrating water:

- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Brick Construction, Geo Formations
- Pipe Intrusions
- Waste Water Tanks, Water Reservoirs
- Tunnels, Dams, Soil Stabilization
- Sewers, Manholes, Utility Boxes

Product Description

SealBoss® 1570 Water Stop Foam mixed with **SealBoss® 15x Accelerator** is a flexible hydrophobic, water-activated (hydro-active), water cut-off grout and foam seal grout based on a MDI polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product is adjustable by the mandatory adding of a certain percentage of SealBoss® 15x Accelerator. A phthalate free formulation (F) is available. SealBoss® 1570 WaterStopFoam is NSF/ANSI 61 Drinking Water Contact Approved.

Upon contact with water SealBoss® 1570 Water Stop Foam reacts to a flexible foam while expanding its volume 30 to 40 times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness. The reacted material does not shrink or swell.

Depending on the amount of accelerator added and the pressure of injection, SealBoss® 1570 Water Stop Foam reacts to a dense, closed cell, semi rigid material or a more open cell, semi flexible product. For best waterproofing results the closed cell structure is desired. SealBoss® 1570 Water Stop Foam is designed for sealing seeping water leaks and for cutting off water in cracks and joints. Due to the low viscosity of the material, SealBoss® 1570 Water Stop Foam offers superior penetration in hairline crack injection. The product is suitable for the filling of spaces, cracks and honeycombing in stone or concrete structures. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1570 Water Stop Foam with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1570 Water Stop Foam and the SealBoss® 15X Accelerator are supplied separately to allow adjustment of gel-time. It is mandatory to add SealBoss® 15X Accelerator to ensure a complete reaction as designed. A higher percentage of Accelerator added will increase reactive speed, expansion volume and will lower the density of the product accordingly. The accelerator system offers a very flexible range of reactive properties, gel-time and expansion rate which make this product extremely versatile for many applications. Since the end product is of cellular structure, a higher density is favored for best waterproofing properties. Recommended mix ratios are between 3% and 10% of Accelerator added. In situations of high water flow rates and /or low temperatures,

Water Activated, Flexible Polyurethane Waterstop & Seal Injection Foam Grout

SealBoss® 1570 Water Stop Foam Advantages:

- SealBoss® Product-Pump-Packer System Solution
- Unregulated For Transport
- Advanced MDI Formulation
- This Product is for Professional Use

ratios may be increased to 20%. For hairline crack injection and soil stabilization ratios may be lowered to less than 5%. Observe temperature and humidity of the environment, since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule of thumb: High temperatures and high humidity decreased gel-time.

SealBoss® 1570 Water Stop Foam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.

All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

1570 Water Stop Foam & 15X Accelerator

Technical Properties

	1570 Water Stop Foam	15X Accelerator
Appearance	Amber	Clear
Solids	100%	100% ASTM D 1010
Density, lb/gal - g/ml	1.0	0.93 ASTM D 3800-79
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F ASTM D 93-85
Viscosity, cps	160-250	20 ASTM D 2196
Mixing Ratio by Volume (2%-10% accelerator)	50-10 parts	1 part
Solubility in Water	not	
Packaging	1 gal 5 gal 55 gal	0.1 gal 0.5 gal
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years - 5 gal / 55 gal 1 year - 1 gal units	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years
Reaction		
Induction Time, 20°C / 68°F	40 sec (10% 15X added)	
Gel time, 20°C / 68°F	90 sec (10% 15xs added)	
Induction Time, 20°C / 68°F	20 sec (15% 15X added)	
Gel time, 20°C / 68°F	70 sec (15% 15xs added)	
Properties Cured		
Physical properties may vary based on water & accelerator ratios & conditions during reaction		
Expansion, %	600-3000 (6-30 Times) depending on Accelerator ratio & counter pressure	
Elongation, %	250 ASTM D 638	
Tensile Strength	100-120 psi ASTM D 638	
Shrinkage	<2% ASTM D 1042	
Strength (Sand Filled)	1550 psi	
Corrosiveness	Non-Corrosive	
Appearance	Yellow-White Polyurethane Foam	
Toxicity	MDI Based, Good Resistance to Chemicals Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms	

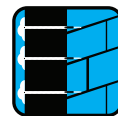


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Revised 202012

SealBoss®

1570LV Water Stop Foam & 15X Accelerator



Product Data Sheet



Drinking Water
Contact Approved
NSF/ANSI 61



SealBoss® 1570 LV Applications

SealBoss® 1570 LV Water Stop Foam for infiltrating water:

- Hairline Crack Injection
- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Brick Construction, Geo Formations
- Pipe Intrusions
- Waste Water Tanks, Water Reservoirs
- Tunnels, Dams, Soil Stabilization
- Sewers, Manholes, Utility Boxes

Product Description

SealBoss® 1570 LV Water Stop Foam mixed with **SealBoss® 15x Accelerator** is a super low viscosity, flexible, hydrophobic, water-activated (hydro-active), water cut-off grout and foam seal grout based on MDI polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product is adjustable by the mandatory adding of a minimum of 10% SealBoss® 15x Accelerator and a maximum of 20% SealBoss® 15x Accelerator. SealBoss® 1570 LV WaterStopFoam is NSF/ANSI Drinking Water Contact Approved.

Upon contact with water SealBoss® 1570 LV Water Stop Foam reacts to a flexible foam while expanding its volume 8 to 25 times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness. The reacted material does not shrink or swell.

Depending on the amount of accelerator added, the injection pressures, structure and confinement properties, SealBoss® 1570 LV WaterStopFoam reacts to a dense, closed cell, semi flexible product.

SealBoss® 1570 LV Water Stop Foam is designed for sealing seeping water leaks and for cutting off water in cracks and joints. Due to the low viscosity of the material, SealBoss® 1570 LV Water Stop Foam offers superior penetration in hairline crack injection. The product is suitable for the filling of spaces, cracks and honeycombing in stone or concrete structures. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1570 LV WaterStopFoam with other systems of our product line may be advised. Ask your SealBoss technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1570 LV Water Stop Foam and the SealBoss® 15X Accelerator are supplied separately to allow adjustment of gel-time and to provide a long shelf life. It is mandatory to add SealBoss® 15X Accelerator to ensure a complete reaction as designed. A higher percentage of Accelerator added will increase reactive speed, expansion volume and will lower the density of the product accordingly. The accelerator system offers a very flexible range of reactive properties, gel-time and expansion rate which make this product extremely versatile for many applications. Since the end product is of cellular structure, a higher density is favored for best waterproofing properties. Recommended mix ratios are between 10% and 20% of Accelerator added. In situations of high water flow rates and /or low temperatures, ratios may be increased to 20%. For hairline crack injection and soil stabilization ratios may be lowered to 10%. Observe temperature and humidity of the environment, since

Water Activated, Polyurethane Waterstop & Seal Flexible Injection Foam Grout

SealBoss® 1570 LV Water Stop Foam Advantages:

- SealBoss® Product-Pump-Packer System Solution
- 90 CPS Super Low Viscosity
- Unregulated For Transport
- MDI Formula
- Minimum 10% Accelerator Required

both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule of thumb: High temperatures and high humidity decreased gel-time.

SealBoss® 1570 LV Water Stop Foam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.

All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Remove all excess product and any smears. Tools and mixing equipment must be cleaned immediately after use. Cured product is hard to remove. First Step, and only if in compliance with all applicable regulations on the jobsite: Flush with a very small amount of approved solvent. Observe all hazard warnings. Second Step: Flush with SealBoss® R70 Pump Flush circulate cleaner through pump and hoses for several minutes at higher flow rates.

Health and Safety

Protect your health! always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

SealBoss® 1570 LV Water Stop Foam & 15X Accelerator



Technical Properties

	1570 LV Water StopFoam	15X Accelerator
Appearance	Amber	Clear
Solids	100%	100%
Density, lb/gal - g/ml	8.9 / 1.1	0.93
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F
Viscosity, cps	~ 90 mixed	20
Mixing Ratio by Volume (2%-10% accelerator)	50-5 parts	10%-20%
Solubility in Water	not	
Packaging	1 gal 5 gal 55 gal	0.1 gal 0.5 gal
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years - 5 gal / 55 gal 1 year - 1 gal units	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 2 years
Reaction		
Induction Time, 20°C/68°F	35 sec (10% 15X added)	
Gel time, 20°C/68°F	140 sec (10% 15xs added)	
Properties Cured		
Physical properties may vary based on water & accelerator ratios & conditions during reaction		
Expansion, %	600-2500 (6-25 Times) depending on Accelerator ratio & counter pressure	
Elongation, %	250	ASTM D 638
Shrinkage <2%	ASTM	D1042
Tensile Strength	100-120 psi	ASTM D 638
Strength (Sand Filled)	1550 psi	
Corrosiveness	Non-Corrosive	
Appearance	Yellowish-White Polyurethane Foam	
Toxicity	MDI Based, Good Resistance to Chemicals Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms	



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Revised 202012

SealBoss®

1500 WaterStopFoam 2-Component Formula



Product Data Sheet

SealBoss® 1500 Applications

SealBoss® 1500 WaterStopFoam for infiltrating & gushing water:

- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Limestone
- Basements, Parking Garages, Brick Construction
- Pipe Intrusions
- Tunnels, Dams, Bridges
- Sewers, Manholes, Utility Boxes

Product Description

SealBoss® 1500 WaterStopFoam is a hydrophobic, water-activated (hydro-active), water cut-off grout and foam seal grout based on a phthalate free, MDI polyurethane. The product is 100% solvent free, 100% solids two component formulation to be mixed at a 1:1 ration by volume. Upon contact with water SealBoss® 1500 WaterStopFoam reacts to a semi flexible foam while expanding its volume 30 to 40 times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness. The reacted material essentially does not shrink or swell.

The advanced 1:1 formulation of the product results in a very dense, closed cell structure when injected under pressure. Very low counter pressure will result in a less rigid more expanded product. For best waterproofing results a closed cell structure is desired. Due to the low viscosity of the material, SealBoss® 1500 WaterStopFoam offers good penetration in hairline crack injection. The product can be used for the filling of voids, cracks and honeycombing in stone or concrete structures. The moisture content of the soil must be sufficient to ensure reaction. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1500 WaterStopFoam with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

The product is available in bulk or in cartridges as part of the **SealBoss® WaterStopFoam Cartridge System**. The mix ratio by volume is 1:1. The product can be pumped with either single or two-component equipment. When used with single component pumps mix product thoroughly before applying. Be aware of the highly water reactive nature of the mixed material. Observe temperature and humidity of the environment, since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule of thumb: High temperatures and high humidity decreased gel-time.

SealBoss® 1500 WaterStopFoam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.

All equipment, pumps and hoses must be dry. Avoid moisture

Water Activated, Polyurethane Waterstop & Seal Injection Foam Grout

SealBoss® 1500 WaterStopFoam Advantages:

- SealBoss® Product-Pump-Packer System Solution
- 1:1 Ratio, 2 Component Cartridge System Formula
- Unregulated For Transport
- Advanced Phthalate Free, MDI Formulation
- This Product is for Professional Use

contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Tips for Cartridge Users

- Shake cartridge prior to all applications and each time it is used for a minimum of 1 minute.
- Remove air from system - prime cartridge by slowly dispensing product from cartridge into mixer in vertical orientation until mixer is completely filled.
- Discard a small amount of product prior to application. Ratio may be slightly off when initial product travels through static mixer. Once uniform mixture is observed, product is ready for application.
- Dispensed product is highly water reactive and will expand to foam.

SealBoss® 1500 WaterStopFoam



Technical Properties

	1500 Comp. A	1500 Comp. B
Appearance	Colorless	Brown
Solids	100%	100% ASTM D 1010
Density, lb/gal - g/ml	1.12	0.93 ASTM D 3800-79
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F ASTM D 93-85
Viscosity, cps	90-98	90-98 ASTM D 2196
Mixing Ratio, by Volume	1:1	
Solubility in Water	not	
Packaging	22 oz dual cartridge 5 gal	5 gal
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Bulk - 12 months Cartridges - 9 months	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Bulk - 12 months Cartridges - 9 months
Reaction		
Induction Time, 20°C / 68°F	15 sec	
Initial Cure Time, 20°C / 68°F	2 min	

Properties Cured

Physical properties
may vary based on water
ratios & conditions

Expansion, %	approx. 4000 (40 Times)
Elongation, %	10-20 ASTM D 638
Tensile Strength	65 psi ASTM D 638
Shear Strength	>15 psi ASTM C 273
Strength (Sand Filled)	1500 psi
Corrosiveness	Non-Corrosive
Resistance	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms



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Revised 201705

SealBoss®

1500 Hot Shot Cartridge



Product Data Sheet
WaterStopFam
2-Component Formula

Technical Properties

	1500 Comp. A	1500 Comp. B
Appearance	Colorless	Brown
Solids	100%	100% ASTM D 1010
Density, lb/gal - g/ml	1.12	0.93 ASTM D 3800-79
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F ASTM D 93-85
Viscosity, cps	90-98	90-98 ASTM D 2196
Mixing Ratio, by Volume	1:1	
Solubility in Water	not	
Packaging	22 oz dual cartridge	
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Cartridges - 12 months	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Cartridges - 12 months
Reaction		
Induction Time, 20°C / 68°F	15 sec	
Initial Cure Time, 20°C / 68°F	2 min	
Properties Cured		
Physical properties may vary based on water ratios & conditions		
Expansion, %	approx. 4000 (40 Times)	
Elongation, %	10-20 ASTM D 638	
Tensile Strength	65 psi ASTM D 638	
Shear Strength	>15 psi ASTM C 273	
Strength (Sand Filled)	1500 psi	
Corrosiveness	Non-Corrosive	
Resistance	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms	



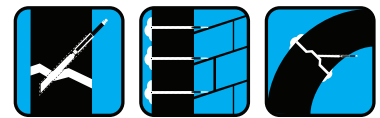
Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

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Revised 201801

SealBoss® 1500 Hot Shot Cartridge



Product Data Sheet

WaterStopFoam 2-Component Formula

SealBoss® 1500 Applications

SealBoss® 1500 WaterStopFoam Cartridge

- Defective Concrete (Cracked or Honeycombed)
- Concrete Construction Joints & Cracks
- Limestone
- Basements, Parking Garages, Brick Construction
- Pipe Intrusions
- Tunnels, Dams, Bridges
- Sewers, Manholes, Utility Boxes

Water Activated, Polyurethane Waterstop & Seal Injection Foam Grout

SealBoss® 1500 WaterStopFoam Advantages:

- SealBoss® Product-Pump-Packer System Solution
- 1:1 Ratio, 2 Component Cartridge System Formula
- Unregulated For Transport
- Advanced Phthalate Free, MDI Formulation
- This Product is for Professional Use

Tips for Cartridge Users

- Shake cartridge prior to all applications and each time it is used for a minimum of 1 minute.
- Remove air from system - prime cartridge by slowly dispensing product from cartridge into mixer in vertical orientation until mixer is completely filled.
- Discard a small amount of product prior to application. Ratio may be slightly off when initial product travels through static mixer. Once uniform mixture is observed, product is ready for application.
- Dispensed product is highly water reactive and will expand to foam.

Product Description

SealBoss® 1500 WaterStopFoam is a hydrophobic, water-activated (hydro-active), water cut-off grout and foam seal grout based on a phthalate free, MDI polyurethane. The product is 100% solvent free, 100% solids two component formulation to be mixed at a 1:1 ratio by volume. Upon contact with water SealBoss® 1500 WaterStopFoam reacts to a semi flexible foam while expanding its volume 30 to 40 times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not effected by water or dryness. The reacted material essentially does not shrink or swell.

The advanced 1:1 formulation of the product results in a very dense, closed cell structure when injected under pressure. Very low counter pressure will result in a less rigid more expanded product. For best waterproofing results a closed cell structure is desired. |

Installation Guidelines

The product is part of the **SealBoss® Cartridge System**. The mix ratio by volume is 1:1. SealBoss® 1500 WaterStopFoam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.



SealBoss® 1500 Hot Shot Cartridge WaterStopFoam

SealBoss®

1500 Hot Shot Cartridge



Product Data Sheet
WaterStopFam
2-Component Formula

Technical Properties

	1500 Comp. A	1500 Comp. B
Appearance	Colorless	Brown
Solids	100%	100% ASTM D 1010
Density, lb/gal - g/ml	1.12	0.93 ASTM D 3800-79
Boiling Point, °C / °F	205°C / 400°F	170°C / 338°F
Flash Point, °C / °F	180°C / 356°F	125°C / 225°F ASTM D 93-85
Viscosity, cps	90-98	90-98 ASTM D 2196
Mixing Ratio, by Volume	1:1	
Solubility in Water	not	
Packaging	22 oz dual cartridge	
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Cartridges - 12 months	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors Cartridges - 12 months
Reaction		
Induction Time, 20°C / 68°F	15 sec	
Initial Cure Time, 20°C / 68°F	2 min	
Properties Cured		
Physical properties may vary based on water ratios & conditions		
Expansion, %	approx. 4000 (40 Times)	
Elongation, %	10-20 ASTM D 638	
Tensile Strength	65 psi ASTM D 638	
Shear Strength	>15 psi ASTM C 273	
Strength (Sand Filled)	1500 psi	
Corrosiveness	Non-Corrosive	
Resistance	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms	



Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

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Revised 201801

SealBoss®

1640 HOT SHOT Structural Strength Leak Seal & Void Filler Foam Cartridge



Product Data Sheet

SealBoss® 1640 Dry & Wet Applications

- Leak Seal, Void Filler, Stabilizer
- Undersealing of Structures

Dry Reactive, Fast Cure, Hydrophobic
Two Component Polyurethane Foam & Seal
Injection Foam Grout

Seal - Fill - Densify

Product Description

SealBoss® 1640 is a closed cell, two-component, non-shrink polyurethane foam with structural properties. This MDI (methylene-diphenyl-isocyanate) based product is 100% solvent free and 100% solids. The product starts to react when mixed and does not need moisture from external sources for the reaction. SealBoss® 1640 expands up to eight times forming a closed cell structure and cutting down the material consumption drastically. The cured foam offers limited structural strength combined with increase in volume and excellent bonding properties on dry and with limitations on wet surfaces.

SealBoss® 1640 S is designed to fill voids in soil and stone, brick or concrete structures for the purpose of waterproofing as well as regaining certain structural strength. The excellent combination of hardness and flexibility qualifies SealBoss® 1640 for use in areas where structural strength and moderate flexibility are desired.

The expanding and compressive strength qualities of SealBoss® 1640 Structural Strength SlabLifter™ make it a price competitive alternative for the filling of voids and 'pockets'. The structural strength of the foam product is highly correlated to the expansion rate. SealBoss® 1640 Structural Strength SlabLifter™ can be applied in dry and wet areas. Additional moisture may increase the expansion. The standard mixture expands approximately six times in volume. Job site testing is recommended to determine product suitability. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1640 with other systems of our product line may be advised.

SealBoss® 1640 is not designed to stop high velocity water leaks. To stop active water leaks please refer to **SealBoss® 1510 Water Stop Foam**. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1640 Structural Strength Foam is a two-component foam system. The mixing ratio is 1:1 (A:B) by volume. Condition the product to room temperature prior to use. The product is also available in bulk.



SealBoss® 1640 Structural Strength Leak Seal & Void Filler Foam Cartridge



Technical Properties

Components	TEST METHOD	COMP. A	COMP. B	COMP. A/B Mixed
Solids		100%	100%	
Viscosity A/B mixed	ASTM D-2393			280-400 mixed
Specific gravity	ASTM D-1638	1.2	1.04	
Weight per gal, lb		10.0	8.68	
Mix ratio	by weight	52	48	
	by volume	50	50	

Cured Material

Density	4 lbs/ft ³
Compressive strength	11,520 psf (80 psi) (fully cured)

Physical Properties

Initial Reaction Time	5 seconds to 20 seconds (depending on temperature)
Rise time, minutes	2-4
Tack free time	60 seconds to 240 seconds (depending on temperature)
Max. Expansion (unconfined)	20 times (2000%)
Shrinkage	<1% ASTM D-1042 / D-756

Packaging

Cartridge Systems	22 oz (650 ml)
Bulk	5 gal 5 gal
	55 gal 55 gal
	Tote Tanks
Storage	1 year. Unopened containers at 15-30°C, 58-85°F Store indoors
	Cartridges: 9 months

Corrosiveness

Appearance	Non-Corrosive
	Gold-Yellow
	Polyurethane Foam

Resistance to Chemicals

High Resistance to
Most Organic Solvents, Mild Acids, Alkali and
Micro Organisms Mild Acids, Alkali and Micro Organisms

Health and Safety

Protect your health! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.



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Revised 201712



SealBoss® Seal Oakum Applications

- For Use With SealBoss Hydro Active PU Water Stop Foam Injection Grouts
- Stop Water Infiltration Through Larger Openings, Cracks, And Voids
- Create Or Use In Combination With Joint Gaskets In Sewer And Storm Drain Lines, Ducts
- Wastewater Treatment Plants
- Reservoirs and Water Tanks
- Pipelines, Duct Works
- Service Manholes
- Tunnels and Underground Cable Trenches
- Industrial Buildings, Power Plants
- Commercial and Public Utility Buildings

Product Description

SealBoss® 1500 Seal Oakum is a tar free (dry oakum), strong, jute based material designed to soak up SealBoss® WaterStopFoam products and injection grouts, while keeping products in place to create a barrier in larger openings of active water infiltration.

Installation Guidelines

Submerge SealBoss® 1500 Seal Oakum into activated foam resin. When removing from container, wipe off excess material. If necessary, wet joints or voids with water to prime surface for saturated SealBoss® 1500 Seal Oakum. To seal minor leaks, dip saturated SealBoss® 1500 Seal Oakum into water to start reaction. Place saturated SealBoss® 1500 Seal Oakum in the joint or void. You may spray visible saturated SealBoss® 1500 Seal Oakum surface with water to speed up the cure process. Cut excess from surface of joint after cure. To achieve most satisfying and permanent results in certain applications, a combination of **SealBoss® 1500 WaterStopFoam** with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Federal Specification: SealBoss® 1500 Seal Oakum conforms to Federal Specification HH-P-117 as published in the Federal Standard Stock Catalog, Section IV Part 5. HHP- 117 was approved by the Director of Procurement on November 5, 1940 for the use of all departments and establishments of the Government. Copies are available from the Superintendent of Documents, Washington, D.C. The specification covers twisted jute packing only.

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Case: 50 lbs
700ft (213 m),
8-strands twisted



Packaging

Bag - 0.7 lbs	8 pieces, 1 ft each
Box - 6.5 lbs	8 pieces, 10 ft each
Case 50 lbs	approx. 700 ft (213 m), 8 strands twisted

Storage

Store in temperatures between 60–100°F (16–38°C) in a dry atmosphere. Keep in a sealed container away from moisture. Keep away from flammables or open flames.

Health and Safety

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SealBoss® SealPipe Kit Applications

- Annular Spaces
- Pipe Penetrations
- Large Cracks and Joints
- Small Void Filling
- Electrical Conduits
- Stops Additional Damage

SealBoss® SealPipe Kit Advantages

- Fast Water Activated Polyurethane Foam Reaction
- Ease of Application - Hand Applied
- Versatile Application Range
- Applied in Wet Environments
- Moisture-activated in Dry Environments
- NSF 61 Potable Water Approved PU

Kit Contents

SealBoss® SealPipe Kit contains all products you need for the application.

- 1 Pint Bottle: **SealBoss® 1510 Hydrophobic PU**
- 0.1 Pint Bottle: **SealBoss® 15x Catalyst**
- 1 Bag: **SealBoss® 1500 Seal Oakum**
- Disposable Gloves

Application

1. Put on gloves and safety goggles.
2. Empty kit contents.
3. Thoroughly mix 15x Catalyst into pint bottle of 1510 Hydrophobic PU. Follow **SealBoss® 1510 WaterStopFoam** Data Sheet instructions.
4. Cap and shake the bottle.
5. In separate container, saturate desired amount of SealBoss® 1500 Seal Oakum with SealBoss® 1510/15x solution.
6. In wet environment, apply the SealBoss® 1500 Seal Oakum directly into the pipe penetration, crack, joint, or void and observe reaction.
7. In dry environment, briefly submerge in water prior to application of SealBoss® 1500 Seal Oakum, or apply SealBoss® 1500 Seal Oakum and then introduce water with spray bottle to initiate reaction.
8. For all applications, it is important to apply quickly as reaction effectively begins immediately.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and jobsite regulations while working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws

and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water.



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Revised 201705



SealBoss® 1640 Dry & Wet Applications

- Lifting Of Concrete Slabs And Foundations
- Undersealing Of Slabs And Foundations
- Filling of Voids
- Instant Water-Plug Applications

Typical Structures

Concrete Highways, Airport Runways, Taxiways,
Bridge Approach Slabs, Concrete Slab Floors,
Concrete Pipes, Unconsolidated Soil, Large Cracks

Product Description

SealBoss® 1640 Structural Strength SlabLifter™ & Leak Seal Foam is a closed cell, two-component, non-shrink polyurethane foam with structural properties. This MDI (methylene-diphenyl-isocyanate) based product is 100% solvent free and 100% solids. The product starts to react when mixed and does not need moisture from external sources for the reaction. SealBoss® 1640 Structural Strength SlabLifter™ expands up to eight times forming a closed cell structure and cutting down the material consumption drastically. The cured foam offers limited structural strength combined with increase in volume and excellent bonding properties on dry and with limitations on wet surfaces. The product is not a replacement for typical epoxy injection but offers an alternative for filling larger spaces that demand limited structural strength. The compressive strength of the reacted product is typically much higher when filled with an inert mineral such as sand.

SealBoss® 1640 Structural Strength Foam is designed to fill voids in soil and stone, brick or concrete structures for the purpose of waterproofing as well as regaining certain structural strength. The excellent combination of hardness and flexibility qualifies SealBoss® 1640 Structural Strength SlabLifter for use in areas where structural strength and moderate flexibility are desired.

SealBoss® 1640 Structural Strength SlabLifter™ is an excellent soil solidification foam which can be used to seal, lift, fill and densify soil next to and under structures such as roadways, driveways, runways, patios and other buildings by utilizing a deep grout injection process.

The expanding and compressive strength qualities of SealBoss® 1640 Structural Strength Foam make it a price competitive alternative for the filling of large voids and 'pockets'. The structural strength of the foam product is highly correlated to the expansion rate and the use of inert fillers such as sand. SealBoss® 1640 Structural Strength Foam can be applied in dry and wet areas. Additional moisture may increase the expansion. The standard mixture expands approximately six times in volume. Job site testing is recommended to determine product suitability. To achieve most satisfying and permanent results in certain applications, a combination of SealBoss® 1640 Structural Strength Foam with other systems of our product line may be advised.

SealBoss® 1640 Structural Strength Foam is not designed to stop high velocity water leaks. To stop active water leaks please refer to **SealBoss® 1510 WaterStopFoam**. Ask your SealBoss®



Lift-Seal-Fill-Densify

Structural Strength,
Fast Cure, Hydrophobic
Two Component Polyurethane
Foam & Seal Injection Grout

Injecting SealBoss® 1640 Foam through
injection lances into soil under slab.

technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1640 Structural Strength Foam is a two-component foam system. The mixing ratio is 1:1 (A:B) by volume. Condition the product to room temperature prior to use. The components need to be thoroughly mixed either in a container prior to the application or by the use of a static mix head just prior to injection. Due to the short gel time, dual-component equipment must be used for injection. In some gravity feed applications the product may be poured. The product is also available in cartridges.

All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

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Technical Properties

Components	TEST METHOD	COMP. A	COMP. B	COMP. A/B Mixed
Solids		100%	100%	
Viscosity A/B mixed	ASTM D-2393			280-400 mixed
Specific gravity	ASTM D-1638	1.2	1.04	
Weight per gal, lb		10.0	8.68	
Mix ratio	by weight	52	48	
	by volume	50	50	

Cured Material

Density	4 lbs/ft ³
Compressive strength	11,520 psf (80 psi) (fully cured)

Physical Properties

Initial Reaction Time	5 seconds to 20 seconds (depending on temperature)
Rise time, minutes	2-4
Tack free time	60 seconds to 240 seconds (depending on temperature)
Max. Expansion (unconfined)	20 times (2000%)
Shrinkage	<1% ASTM D-1042 / D-756

Packaging

Cartridge Systems	22 oz (650 ml)
Bulk	5 gal 5 gal
	55 gal 55 gal

Storage

Tote Tanks
1 year. Unopened containers at 15-30°C, 58-85°F Store indoors
Cartridges: 9 months

Corrosiveness

Non-Corrosive

Appearance

Gold-Yellow

Resistance to Chemicals

Polyurethane Foam
High Resistance to
Most Organic Solvents, Mild Acids, Alkali and



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Revised 201804



Injecting SealBoss® 1640 Structural Strength SlabLifter Foam through INJECTION LANCES into soil cavity under roadway.

- Lift
- Seal
- Fill
- Densify

SlabLifter Application Technique:

SealBoss® 1640 Structural Strength SlabLifter™ injection systems are designed for concrete raising and soil stabilization applications that are most common in sidewalks, driveways, and residential slabs around the world. For chemical injection raising of slabs, it is necessary to utilize a vigorously reactive structural polyurethane resin. The short reaction times provide immediate results as lifting can be done within an accuracy of 1/8" or less.

1. Wear adequate protective gear and goggles at all times and follow data sheet and SDS instructions.
2. Thoroughly examine the existing parameters under the slab in order to identify exit paths for the foam. A full containment of injection resin is required for best results. It is also recommended to ensure full movement capabilities in the substrate by performing a saw cut through existing joint bonds. This will allow independent movement at the slab joints.
3. Identify the drill hole spacing and depths. SealBoss® recommends 3-4 feet on center spacing while maintaining a distance of 2 feet from the joint and slab edges. Once the 5/8" drill holes are made, a soil condition assessment can be performed through the utilization of a penetrometer (A penetrometer measures soil density by charting the number of blows required to drive the device into the soil at any given depth. An increased number of blows correlates to more dense soil). When the soil assessment is completed, you are ready to determine injection depths.
4. For most small slab applications, SealBoss® 1640 Structural

Strength SlabLifter™ can be injected just under the slab and filling the primary sub-surface void in order to lift the slab. This is achieved through the usage of a pneumatic tool and cartridge systems. The plastic static mixer is inserted into the drill hole. Drill hole diameter is dependent upon the diameter of the mixer.

5. Material consumption varies greatly from application to application as it depends on the condition of the sub-surface and soil compaction conditions. While the product exhibits a 20x free rise expansion, confined spaces under slabs typically show a 6x expansion due to increased density of material being injected at high pressures. For conservative estimations, it is advised to calculate the total volume between the top of the slab and the level surface of the intended level. Convert this volume to gallons with 128 cubic inches / gallon. This is material estimate for the project.

6. In the case of large slabs, applicators must use a primary and secondary injection procedure that involves a primary injection for void filling purposes to a depth of 4-6 feet followed by a secondary injection for lifting purposes. These applications are only recommended with heavy duty industrial pumping systems that feature heated lines and outputs of 1,000psi and 1GPM minimum.

7. SealBoss® 1640 Structural Strength SlabLifter™ systems are designed for slow and steady lifting of concrete slabs. Inject material for 10 second intervals, observe the substrate, and repeat until 80% lift is achieved. Be sure to calculate void volumes and material consumptions prior to application. Perform as planned, and perform subsequent cycles of injection as needed. Finish final 20% lift as needed being sure not to over lift.

8. Small slabs are defined as a standard sidewalk slab from joint to joint. Most specifications refer to this as 4-6" in thickness and 6' in length. For larger slabs, SealBoss® Corp. recommends applying with pumping equipment rather than cartridges to increase density and expansive forces.

9. Alternatively, a method has been implemented to lift slabs to level with heavy duty forklift through the use of U-beam anchored into the concrete with anchoring bolts. The forklift can then lift the slab to level, with SealBoss® 1640 Structural Strength SlabLifter™ injected under the slab to fill the void. Where this application is possible, SealBoss® 1640 Structural Strength SlabLifter™ can be injected simply with the **SealBoss® P3003-2C Injection Pump** modified to 1:1 ratio.

SlabLifter Benefits vs. Conventional Lifting Methods

- Lightweight product minimizes loads and stress on existing surface
- Quick cure products provide minimal downtime and immediate results

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Revised 201810



SealBoss® 1403 Applications

- Follow-Up Injection of Water Stop Foam Injection
- Hairline Crack Injection
- Sealing Concrete Cracks & Joints
- Sealing Concrete Construction Joints
- Brick Construction
- Waste Water Tanks
- Sewers, Manholes, Utility Boxes, etc.
- Tunnels, Dams, Bridges
- SealBoss® Inject Tube System 2000

Super Low Viscosity, Flexible, Polyurethane Injection Resin

SealBoss® 1403 Advantages:

- SealBoss® Product-Pump-Packer System Solution
- Deep Penetration - 70 CPS SLV
- Full Cure in Dry & Damp Conditions
- Flexible, Moisture Insensitive, 2 Comp. Formula
- Unregulated For Transport
- This Product is for Professional Use

Product Description

SealBoss® 1403 SLV Resin is a low viscosity, two component, hydrophobic MDI polyurethane based resin on a MDI polyurethane. The product is 100% solids and solvent free. The gel time of the product can be decreased by adding a **SealBoss® 1400 Catalyst**.

This high grade injection resin is designed for application in damp and dry cracks. Unlike water activated products, SealBoss® 1403 SLV Resin does not need any moisture for the reaction. The super low viscosity of 70 cps permits for excellent penetration into fine hairline cracks. Good adhesive properties and product flexibility minimize formation of new cracks in the structure. The cured resin is inert to wet and dry cycles, it does not shrink or swell. SealBoss® 1403 SLV Resin may slightly foam in contact with moisture in a pressure free environment. Under pressure SealBoss® 1403 SLV Resin cures to a dense and flexible sealant. The product is non-corrosive and safe for use in combination with foils and joint strips. The product is an excellent finishing product for areas previously injected with expanding foam, where minor leaks or dampness may persist.

Limitations: SealBoss® 1403 SLV Resin is not designed to stop active water leaks. Larger amounts of water can dilute the product and reduce physical properties. Active leaks should be stopped first with SealBoss® WaterStopFoam, PU Injection Grouts or **SealBoss® FlexGel**. Ask your SealBoss technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 1403 SLV Resin is supplied in separate containers with equal amounts of A and B component. The mixing ratio by volume is 1:1 (A:B). The material can be applied with suitable two-component or single component injection equipment.

Single component equipment users: Observe temperature and humidity of the environment, since both determine the pot life of the premixed batch. Do not mix more material than the amount that will be pumped within pot life window. Rule: High temperatures and high humidity shorten your gel time.

The use of SealBoss® 1400 Catalyst is optional: By adding 1400 Catalyst to the clear A (!) side only, gel time can be reduced from approximately 1 hour to approximately 20 minutes. Up to 5% of catalyst may be added by volume to achieve the shortest gel time.

Example of catalyst usage:

2 gal mixture (7.6 liters)

1% = approx. 2.5 fl oz or .07 liters

5% = approx. 12 fl oz or .35 liters

All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid build up and clogging of the equipment.

Maintenance of Equipment

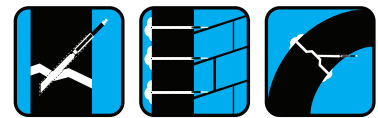
Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

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SealBoss®

1403 SLV Resin PUR



Product Data Sheet

Technical Properties

	Comp. A	Comp. B	1400 CAT	
Appearance	Clear	Dark Brown	Clear	
Solids	100%	100%	100%	ASTM D 1010
Density, g/ml	1.02	1.14	1.16	ASTM D 3800-79
Flash Point, °C / °F	156/313	180/356	165/335	ASTM D 93-85
Viscosity, cps	60-70	80-90	50	ASTM D 1638-74
Mixing Ratio by Volume	1 part	1 part	5% max	
Packaging	5 gal	5 gal	0.5 gal	
Cured Product				
Hardness, Shore D	40			
Elongation, %	>100	ASTM D 638		
Tensile Strength, psi	260	ASTM D 638		
Adhesive Strength, to Concrete, psi	>260			
Corrosiveness	Non-Corrosive			
Storage	Good storage stability for unopened containers at 15 - 30°C, 58 - 85°F in dry, sun free indoors environment 2 years shelf life.			
Appearance	Dark Brown			
Resistance to Chemicals	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms			



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Revised 201705

SealBoss®

FlexGel® Hydrophilic NSF LV Gel



Product Data Sheet



SealBoss® FlexGel System Applications

- Stop Water Infiltration
- Curtain & Bladder Injection Methods
- Sewers, Manholes, Utility Boxes, Tunnels, Dams
- Sealing Joints, Pipe joints, Pipe Intrusions
- Soil Stabilization

Product Description

SealBoss® FlexGel Hydrophilic NSF LV Gel is a low-viscosity, single component hydrophilic polyurethane grout offering excellent penetration properties, superior strength and durability.

At a mixing ratio of 1 part SealBoss® FlexGel to 10 parts water by volume, the mixed product has a super low viscosity of 50 cps. The product is capable of incorporating large amounts of water into itself, thereby forming a waterproofing gel. The ability of SealBoss® FlexGel to swell and increase in volume due to water absorption is one of the important features that differentiate hydrophilic grouts from their hydrophobic counterparts. SealBoss® FlexGel is certified for water contact in accordance with NSF standard 61, for contact with potable water.

SealBoss® FlexGel can either react to a foam or a gel on contact with water based on the mixing ratio. The product forms a flexible gel at product to water ratios from 1:4 to 1:15. Less water results in a stronger gel. The gel time is about 1 to 3 minutes varying with temperature and water saturation. At low product to water ratios of 1:1 to 1:2 SealBoss® FlexGel reacts to a flexible and closed cell foam under pressure. To achieve most satisfying and permanent results, a combination of SealBoss® FlexGel with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

Multi ratio pump : For best results, SealBoss® FlexGel should be injected with a multi ratio pump at preset product to water ratio to achieve the desired gel consistency and properties.

Single component pump: The product may also be applied with single component injection equipment. The presence of sufficient water in the substrate is necessary for the product to form a gel. It may be advisable to introduce water prior to injection. In areas of very little water content and little counter pressure the product may expand to a foam.

For curtain / bladder injection methods behind below grade structures it is recommended to drill through the structure in a pattern that is determined by the physical properties of the soil.

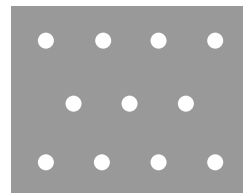
To create a standard checkerboard pattern, holes are drilled 50 cm (two feet) apart from each other in a horizontal line. The next step is to drill holes in a line 50 cm above the first line in the same fashion but staggered. Begin injection at the highest point. Each packer should be injected until material

Water Activated, Flexible, Hydrophilic Injection Gel / Foam

- SealBoss® Product-Pump-Packer System Solution
- Deep Penetration - 70 CPS SLV
- Full Cure in Dry & Damp Conditions
- Flexible, Moisture Insensitive, 2 Comp. Formula
- Unregulated For Transport
- This Product is for Professional Use

penetrates the surrounding drill holes. Patterns may vary according to conditions on the jobsite.

Drill Pattern for Curtain / Bladder Injection Method:



All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

Maintenance of Equipment

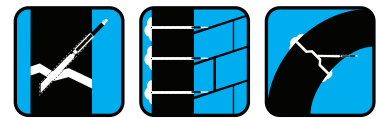
Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

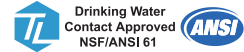
Protect your health! always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

SealBoss®

FlexGel® Hydrophilic NSF LV Gel



Product Data Sheet



TECHNICAL DATA

Appearance
Solids
Density, g/ml
Flash Point, °C / °F

Viscosity Mixed With Water,
cps at 75°F / 25°C
Water : Gel 10:1
Water : Gel 5:1
Viscosity Gel Component,
cps at 40C-25°C 400-500 cps
Corrosiveness
Solubility in Water
Components
Packaging

Storage

Induction Time, 20°C/68°F

Gel time, 25°C/70°F

Properties:

Physical Form
Water Ratio, approx.
Tensile Strength, psi
Bonding Strength
Tensile Elongation, %
Die-C
Shrinkage

NSF/ANSI 61 Certified

FLEXGEL

Amber
100%
1.1
>225
ASTM D 1010
ASTM D 3574
ASTM D 93-85

50 cps
100 cps
ASTM D 1638-74
ASTM D 1638-74

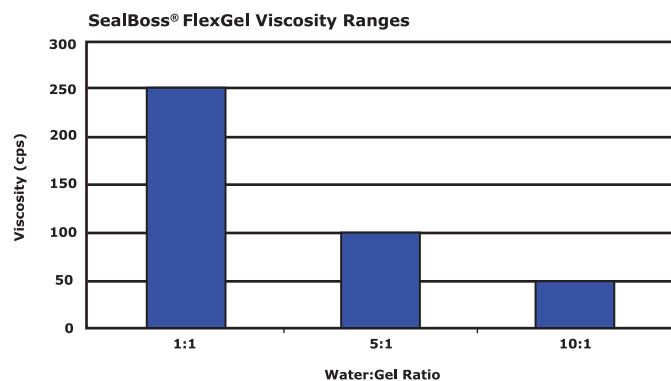
ASTM D 1638-74
Non-Corrosive
Gel
Polyurethane Resin

5 gal
55 gal
1 year, unopened containers at 15- 30°C
58-85°F. Store indoors.

<30 sec
approx. 100 sec

Foam	Gel	Gel	
1:1	1:5	1:8	
430	165	150	ASTM D3574
300-380	120-150	120-140	
462	>1250	>1250	ASTMD3574
49	43	43	
<1%-10%			ASTM D1042

variable with water content & foam or gel reaction



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Revised 201705



SealBoss® 2400 Applications

Water Stop Foam for infiltrating & gushing water:

- Tunnels, Dams, Soil Stabilization
- Brick Structures, Block Wall, Defective Concrete
- Sewers, Shafts
- Waste Water Tanks, Water Reservoirs
- Sewers, Manholes, Utility Boxes
- Pipe Penetration Joints
- Precast Concrete Segments

Product Description

SealBoss® 2400 SealGel SLV Acrylate is an environmentally friendly, super low viscosity, two component hydrophilic polyacrylate gel with accelerator. The product offers outstanding penetration properties similar to plain water. The SealBoss® 2400 SLV Acrylate flows extremely well into the finest cracks and fissures thereby sealing hairline cracks and porous structures such as masonry, cementitious grouts, blocks and brick. The product is suited for curtain / bladder injection by sealing along the structure as well as solidifying the soil in the proximity of the structure.

Areas of application are numerous including the sealing of tunnels, shafts and canal systems, retaining and structural walls, expansion joints, cold joints and cracks. Uncured product can be flushed with water. The product is for professional use.

Properties

SealBoss® 2400 SLV Acrylate is a high-grade, polyacrylic, ultra low viscosity injection gel with excellent sealing qualities. The material is characterized by its high flexibility, strength and tolerance for movement. The gel can be adjusted for reaction times from approximately 15 seconds to several minutes at room temperature. At 68°F / 20° C and standard adjustment (5% of powder B in water, by weight), SealBoss® 2400 SLV Acrylate will flow freely for approx. 25 seconds after mixing and will be fully gelled after approx. additional 50 seconds. This standard gel time allows for an excellent material distribution and an ideal spreading rate in most applications.

To meet specific jobsite needs, the gel time can be adjusted by a wide range by adding more or less of the component B powder to the water side of the batch. Higher ambient and product temperatures accelerate the reaction time, lower temperatures slow it down. Please see the table at the end of this data sheet for detailed gel time data.

SealBoss® 2400 SLV Acrylate reacts to form a waterproof, flexible, but solid gel with outstanding adhesion to dry and wet mineral surfaces. In a moisture-vapor saturated environment the material remains stable in volume. In the case of alternating dry and wet periods, the gel will shrink and swell reversibly. The cured gel is insoluble in water and hydrocarbons and resistant to diluted acids and alkalis as well as to most salts frequently found in concrete structures. SealBoss® 2400 SLV Acrylate has good resistance to alternating freeze and thaw cycles.

Advanced Polyacrylate Gel Injection System

SealBoss® 2400 Advantages

- SealBoss® Product-Pump-Packer System Solution
- Cleans and Flushes with Water
- Liquid Components Unregulated For Transport
- Advanced Strength Formulation
- This Product is for Professional Use

SealBoss® 2400 System

- SealBoss® IP2C Gel Injection Pump
- SealBoss® 2400 SealGel SLV Acrylate
- SealBoss® Packer System



Mixing Of Components

Components A1 and A2 are mixed in container A (5gal for full batch) Component B and water are mixed in container B (5gal for full batch). For reasons of storage stability, component A is supplied in two separate containers (A1 and A2 accelerator). Mix component A1 and A2 which are provided according to the required mixing ratio of 20:1 (parts by weight) immediately before use. Empty the smaller container of component A2 completely into the larger container of component A1. Then mix the components thoroughly with a suitable mixer. Component A is sensitive to light and must be stored protected from direct light for good shelf life.

Component B is a powder concentrate and must be mixed with water on site immediately before use. Component B is an oxidizer and can corrode metals other than quality stainless steel. Component B (powder + water) should be mixed in a plastic container of equal capacity of mixture A. Add the amount of water required for dissolving the powder component B (approx. 5 gallons for a complete batch by adapting the level of liquid of container with component B to that of component A) and mix with a wooden, plastic or stainless steel agitator until the powder is completely dissolved.

After mixing, apply the material with a 2-comp. stainless steel injection pump such as **SealBoss® IP2C Gel Injection Pump** at a mixing ratio of 1:1 (A:B, parts by volume).

SealBoss®

2400 SealGel SLV Acrylate



Product Data Sheet

Preparation

Prior to the injection work the condition of the structure and soil behind the structure should be examined to assess the injection strategy. Placement of drill holes, packer types, gel time adjustments and material consumption per drill hole should be considered prior to product application.

While a common use of SealBoss® 2400 SLV Acrylate is to create an injection curtain / bladder behind the structure, the product offers additional benefits. The super low viscosity permits the gel to penetrate into fine pores and fissures of the structure itself. The product seals voids, cracks and honeycombed areas in poured concrete, shotcrete and grout imperfections in masonry brick and stone wall structures. The low viscosity allows capillary forces to soak up material even at very low injection pressures.

Injection Procedure

Apply the freshly mixed components A and B at a mix ratio of 1:1 (parts by volume) with a suitable 2-comp. pump such as the SealBoss® IP2C Gel Injection Pump.

Three common injection procedures:

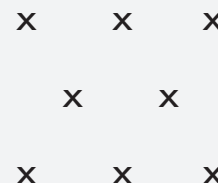
1. Curtain Injection Or Bladder Injection

The objective in curtain/bladder injection is to achieve a waterproofing barrier or membrane on the water side (outside) of the building. This is typically done by injection from the inside of the structure. As gel will spread out along the outside wall it will also penetrate into the soil and stabilize and waterproof it as an additional benefit in the waterproofing process.

After drilling the holes in the correct pattern, injection packers are installed. The type of packer depends on factors such as expected injection volume, type and condition of the structure. SealBoss® supplies the right packers for your needs. Common are the button head fittings for secure connection of the grout line. It is recommended to install packers in a fashion that material travel can be observed by permitting some drill holes to be unplugged to see material "ooze out" in a process called port to port travel. Gel emergence from adjacent drill holes is a good indicator for continuous coverage of product which in return indicates that a complete and continuous curtain is being created. It is recommended to inject SealBoss® 2400 SLV Acrylate from bottom to top, beginning at the lowest drill-hole. However there can be reasons to deviate from this standard procedure such as a large cavity behind a certain injection area. Thanks to the short reaction time and excellent adhesion to minerals, a sealing gel curtain forms behind the structure. The gel also penetrates shrinkage and settlement cracks as well as mortar joints in brickwork thereby sealing the structure itself.

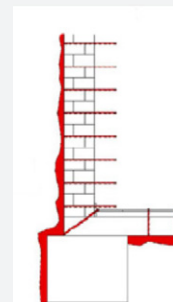
Continue the injection procedure for each drill hole until the emergence of material or the gel formation in the adjacent drill holes is observed or until the material spreading rate calculated on the basis of the soil analysis has been reached for each drill hole. Be aware that a prior assessment of the soil is only an indicator and not a guarantee that enough product has been injected. Soil properties may vary largely behind a structure and the consumption rate may have to be increased depending on the volume of open pores in the adjacent soil and the structure itself. The reference value for the gel's consumption rate can vary from approx. 1-15 gal/square yard or 5-60 kg/m². Strongly cohesive, very dense soil will provide a low consumption rate while sandy soil or even large rocks behind

Positioning and standard distances of drill holes when sealing wall surfaces may vary from typically 12" to 2'.



Schematic view of the working principle of SealBoss 2400 SealGel. The gel is injected from the inside of the structure via drill holes.

On the outside it will form a sealing gel curtain. The material also penetrates into fissures and pores forming an additional water stop inside the structure.



the structure increase consumption.

In the case of extreme cavities and voids, the injection of a hydrophobic foam such as **SealBoss® 1510 WaterStopFoam** might be advised prior to gel injection. This procedure should be discussed with a SealBoss® technician.

Horizontal bladder injection under the slab/floor requires generally closer spacing of the injection grid as gravity will assist the material in soaking into the soil below and the natural horizontal spread of gel is decreased.

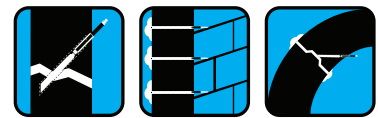
2. Gel injections Directly into Porous Structures

SealBoss® 2400 SLV Acrylate can be used as a post construction horizontal watertstop when injected directly into the structure. This procedure works especially well for thick walls as found in older buildings made from brick and natural stonework, also called stone walls. Prior to the injection procedure it may be necessary to patch the joints and visible cracks in the wall area of the injection surface. Vary drill holes from horizontal drilling to drilling downward at 30-45° angles. This technique will allow for increased gel penetration. The drill-hole diameter depends on the type of injection packers to be used. A SealBoss technician will advise you accordingly. The drill-hole depth should cover approx. $\frac{3}{4}$ of the wall thickness- do not drill all the way through. If equipped, vacuum out the drill holes and install and tighten the mechanical packers. Use a suitable 2-comp. pump to inject the mixed SealBoss® 2400 SLV Acrylate preferably from bottom to top, beginning at the lowest drillhole level. Continue until injection gel starts emerging from the adjacent packers or the port area is saturated and the adjacent cracks, joints and pores are closed. The consumption rate depends on the pore structure, existing cavities and cracks. The average consumption rate may range from 0.5-5gal/square yard at 20" wall thickness (2-20 kg/m² at 50 cm wall thickness).

SealBoss® 2400 SealGel SLV Acrylate

SealBoss®

2400 SealGel SLV Acrylate



Product Data Sheet

3. Sealing Of Construction And Expansion Joints In Below Grade Structures:

In areas where moist soil and/or pressing water are always present, SealBoss® 2400 SLV Acrylate may be used as a sealant for leaking construction and expansion joints of moderate to moderately large movement. The joint edges must permit good adhesion between injection material and substrate. The injection should be done with a suitable 2-comp. pump such as the SealBoss® IP2C Gel Injection Pump. The joint must be completely filled. The consumption rate depends on the open joint volume and the compaction of the adjacent soil.

Cleaning Procedure

The packers can be removed immediately after gel formation. After dismantling the packers, remove all gel from the drill holes/drill-hole walls down to approx. 6" /10 cm and fill these with appropriate mortar/grout. For cleaning of the SealBoss® IP2C Gel Injection Pump please refer to the manual. Clean the injection pump and equipment exclusively with water and possibly soap. Rinse them thoroughly with water any time work is interrupted for a longer period of time and after use. For more detailed information, please refer to the operating instructions of the pump. Remove gel residue mechanically from the equipment immediately after use.

SealBoss® 2400 SealGel SLV Acrylate

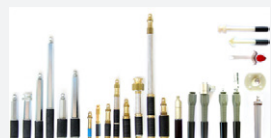
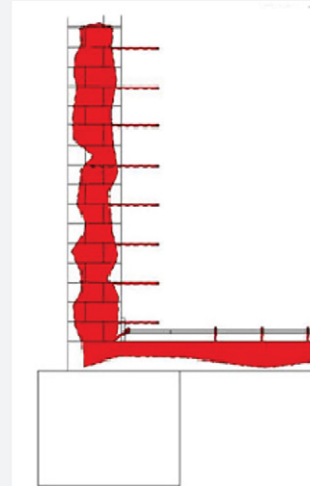
Complete System Solution Advantage

SealBoss® provides the professional acrylate gel injection system to ensure streamlined application procedures and permanent results. All components of the system have been carefully selected to assist the injection contractor in their task.

The SealBoss® IP2C Gel Injection Pump utilizes high quality stainless steel pump design to ensure the acrylate gel will never be in contact with unsuitable metals. The equipment features a built in water flush pump to clean the line immediately following the injection procedure.

The SealBoss® Injection Packer System offers packer designs specifically engineered for acrylate gel injection.

Schematic view of the gel's effect in brickwork. The injection gel is distributed between bricks, joints, cavities and cracks through the drill-holes. The bottom drill-holes level acts as a water stop against capillary rising dampness.

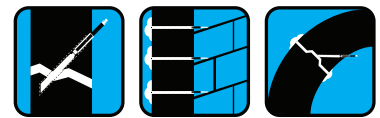


Safety Precautions

OSHA safety regulations and safety data sheets are to be observed at all times when working with SealBoss® 2400 SLV Acrylate. In accordance the safety data sheets must be accessible to all persons responsible for occupational safety, health protection and the handling of materials. Wear protective clothing, safety gloves, and goggles during the application of the material and when cleaning the equipment. The use of a suitable skin care cream is recommended. In case of contact with skin, wash with soap and water. In case of contact with eyes, rinse immediately with an eye bath of water and seek medical advice at once. Do not allow the mixed material to enter drains or soil.

SealBoss®

2400 SealGel SLV Acrylate

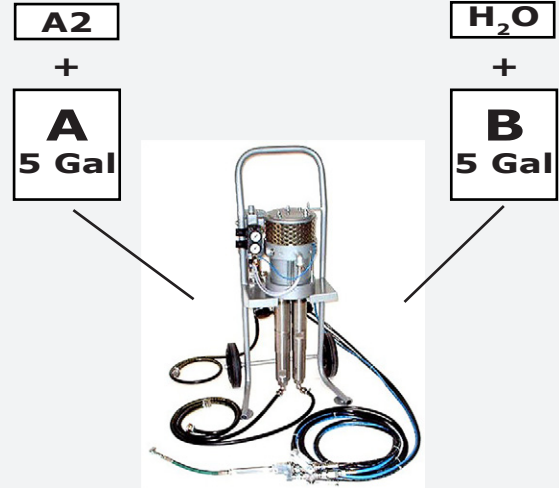


Product Data Sheet

SealBoss® 2400 SLV Acrylate Reaction times (approx.) as function of component B at various application temperatures (component/material) These gel times serve as a basis for the gel adjustment on site. They must be adapted to the actual local conditions according to gel quantity, water content, flow behavior and nature of the building structure.

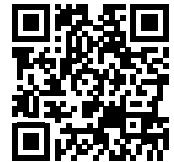
B in ~ 20l / 5 gal water	Viscosity		Reaction time			
	Increase					
	22°C	10°C	22°C	10°C		
	70°F	50°F	70°F	50°F		
120g ~ 0.5%	120	330	90	480	sec	
245g ~ 1.0%	60	180	105	300	sec	
490g ~ 2.0%	40	90	60	180	sec	
740g ~ 3.0%	30	60	50	120	sec	
1000g ~ 5.0%	25	55	35	105	sec	
1950g ~ 7.5%	17	40	25	75	sec	

Combined Batch Size Per Kit 10 Gal



Technical Data

Type of material	2-comp. polyacrylate gel with (A2) Accelerator	
Density (20°C)	Comp. A / A2 A1: approx. 1.2 g/cm ³ A2: approx. 0.95 g/cm ³	Comp. B approx. 1.0 g/cm ³ (dissolved in water)
Color	A1: Amber A2: Colorless	Colorless
Viscosity	A1: approx. 25 cps A2: approx. 25 cps	Approx. 1 cps
Viscosity of mixture	Approx. 5-7 cps	
Mixing ratio	A1:A2 20:1 parts by weight A:B solution 1:1 parts by volume	B:water Approx. 5% solution
Reaction time (70°F/22°C)	Typical 20-40 sec, approx. depending on mixing ratio	
Application temperature	> 40°F or 5°C	
Application	2-comp. pump SealBoss® IP2C Gel Injection Pump	
Storage	At 40-85°F, 5-25°C in original, sealed containers, moisture & light protected, 1 yr shelf life	
Packaging	Comp. A1: 4.7 gal, Comp A2: 0.3 gal , Comp. B: 1 kg	
Typical Batch Size	Comp A1+ A2 = 5 gal , Comp. B + Water = 5 gal, total batch size per kit 10 gal	

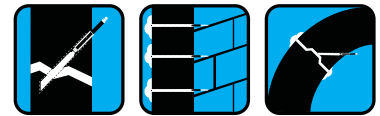


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Revised 201705

SealBoss®

2400 B-Seal



Product Data Sheet

Polymer Modified for SealBoss® 2400

SealBoss® 2400 B-Seal Applications

- Joint sealing / back sealing of joints
- Soil consolidation
 - > In contact with soil
 - > In tunnels, canals shafts, bridges & basements
- Curtain Injection

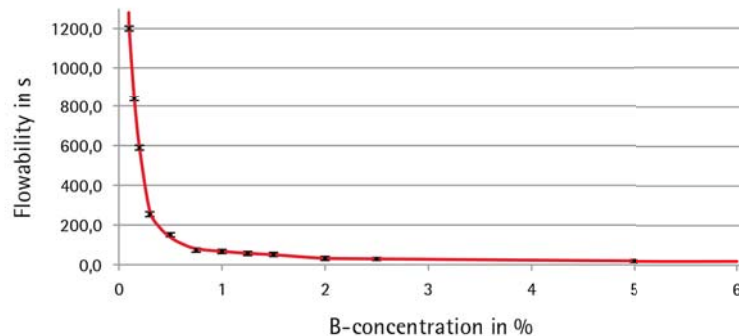
SealBoss® 2400 B-Seal Properties

- very flexible & deformable without breakage
- very long pot life up to 20 min
- comparatively high absorption of water possible
- high tenacity
- salt reduced (0.5% for approx. 2 min reaction time)
- no pre-solution of B-powder necessary

Technical Data

	Component A	Component B
SealBoss® 2400	A1 : A2	B-Salt : Bseal II
	21,5 kg : 1,05 kg	0,1 kg : 20 kg
	1 : 1 VT	
Viscosity	approx. 25 mPa·s	approx. 50 mPa·s
Bending strength	approx. 16 N (at 100 % compression/pure gel)	

Flowability → B-Concentration



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Revised 201705

SealBoss® Can Seal Foam

Product Data Sheet



SealBoss® Can Seal Foam

Waterproofing

- Cable Runs, Instant Backer Rod
- Seals electrical conduits
- Utility Boxes, etc.
- Seals around pipes/ducts
- Increases energy efficiency
- Reduces noise
- Controls radon
- Seals out insects
- Confines fibers
- Strengthens tub bases
- And much, much more...

Up to 8 Gal Foam from one 27oz Can

Instant, Closed-Cell, One Component Polyurethane Foam

For professional, industrial grade, heavy duty applications that demand controllable expansion and predictable cure. Precise bead applications.

High quality reusable steel applicators.

The Important SealBoss Difference

SealBoss® Can Seal Foam is engineered to fully expand inside the applicator 'gun barrel'. When the foam exits the tip of the gun it is almost fully expanded - you apply exactly as much foam as you need without the messy and undesired "mushrooming" experience you may have with most of the other 'over the counter' foam products.

This feature makes our foam predictable and suitable for many applications that cannot be performed with standard foam products.

With our foam and the professional applicator gun you can fill voids precisely. Contractors use our foam for many applications such as water-stop purposes in voids and cable runs, as an insulation and seal-foam in general construction and as an instant 'Backer Rod Bead' in applications where joints need a back fill prior to applying the final sealant.

TYPE OF MATERIAL

SealBoss® Can Seal Foam is a closed cell, self curing foam for universal uses. The product is a single component MDI based polyurethane of highest quality.

It expands, bonds and seals while stopping the passage of air, gases, water and dust. Besides its obvious uses to stop water infiltration it can increase energy efficiency by stopping air exchange around windows, doors, wall intrusions and at sill plates.

Its lightweight, closed cell structure makes it useful for deadening sound, flotation and thermal insulation. It is also useful for scaling work areas prior to stripping to prevent the transport of fibers.

SealBoss® Can Seal Foam is very efficient, you get up to eight gallons foam just from one can!

Insulation Value: The product has an R-Value of about 4 to 8 depending on the thickness of the bead.

Store Like This

FEATURES

- Steel Gun Applicator
- Ozone Safe Technology
- High Volume From Small Can

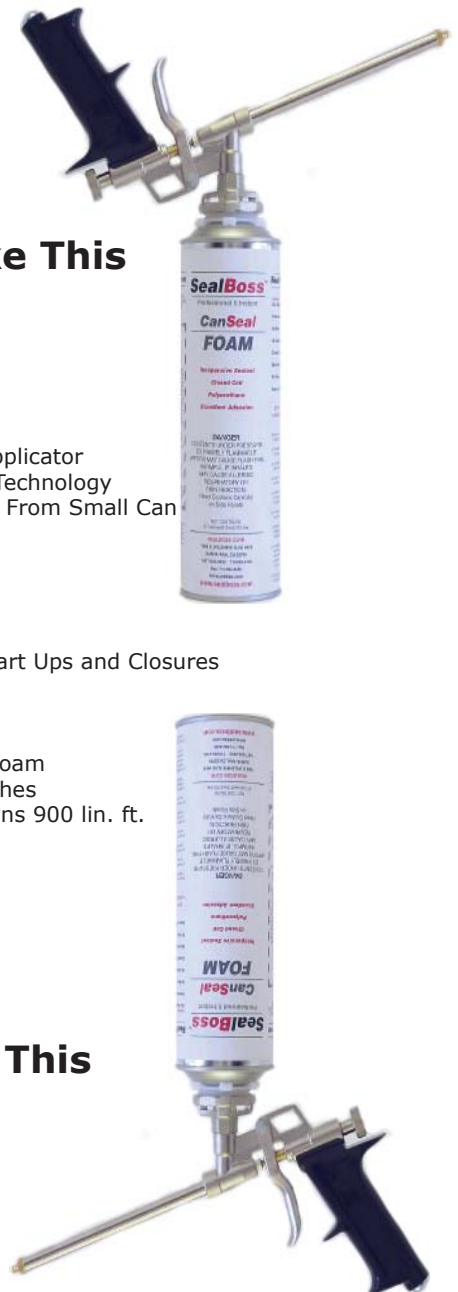
BENEFITS

- No Cleaning
- Low Cost
- Unlimited Start Ups and Closures

VOLUME

- up to 8 gal Foam
- 1800 Cu. inches
- 1/2" Bead runs 900 lin. ft.

Use Like This

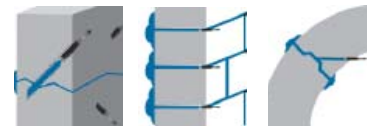


SealBoss® CanSealFoam

SealBoss®

Can Seal Foam

Product Data Sheet



Properties

Color:	Yellowish
Expanded volume:	Free rise at 68% relative humidity 8-9 gals, ~1800cu.inches
Density:	1.2 Lbs/cu ft
Cell Structure:	Closed, 80%
Compression load deflection:	10% compr. 8.5Lbs/sq. in.
Minimum can temp:	40F, 5C
Min. surface temp	32F, 0C
Temperature stability cured foam:	-40F to 176F, -40C to 80C
Tack free at 68F, 20C	15 min
Cuttable at 68F, 20C	30 min
Flammability test	ASTM E 84
Flame spread index:	25
Smoke density:	210
Class 1:	Fire rating construction
Thermal resistance	
R factor ASTM C 518:	5.0/in.
STC Rating	69
Can Size:	27oz.

Caution

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. Due to possible production off highly flammable vapor and air mixtures, provide sufficient ventilation. Do not smoke while using the product. In case of eye contact, rinse with plenty of water and seek medical attention. In case of skin contact wash off with plenty of water and soap. Wear suitable protective gloves and goggles during work. In case of accident, or if you feel unwell, seek immediate medical attention. Container is pressurized. Protect from sunlight and temperatures above 50C, Do not pierce or burn even if can seems to be empty. Do not spray against flames or onto incandescent objects. Harmful when inhaled, irritates eyes, respiratory organs and skin, Can result in sensitization when inhaled. Can produce highly flammable vapor and air mixtures during use.

Content

Polyol prepolymer CAS 59675-67-1,4,4'
Monomeric diphenyl methane diisocyanate (MDI)
CAS 101-68-8
Chlorodifluoroethane CAS 75-68-3.
MDI can irritate eyes, respiratory organs and skin.

How to Use

1. Shake the can of foam.
2. Thread the can into the adapter on the top of the gun - DO NOT OVER TIGHTEN.
3. Pull the trigger for about 5 seconds to purge all air and moisture out of the gun.
4. Wipe or mist water into the joint which is to be foamed.
5. Select the bead size by interacting between the trigger and the flow adjustment screw.
6. The can should be in a vertical position over the gun when foaming.
7. Remove uncured foam from the end of the dispensing tube after each use. Tighten the flow adjustment screw for storage.
8. To replace an empty can, unscrew it and promptly screw a replacement can into the adapter. If no replacement is available, leave the empty can in place until a replacement is at hand.

ALWAYS KEEP A CAN OF FOAM ON THE GUN. FAILURE TO DO THIS WILL ALLOW FOAM TO CURE AND RESULT IN PERMANENT DAMAGE TO THE GUN.

Best Results

1. Condition product to room temperature 60F-80F
2. Shake the can for 30 seconds.
3. Layout practice beads.
4. To enhance cure time you may mist the area with water.

In all conditions it is advised to mist in between layers of foam if a high fill volume is desired. The moisture will help the foam to cure and prevent it from collapsing in high volume applications.

Changing Cans

1. With the canister on its base and the gun nozzle pointing into a suitable container, squeeze the trigger until the rest of material and gas is discharged.
2. Unscrew the can from the gun and wipe off any foam residue from around the ball valve housing with a small amount of suitable solvent.
3. Fit a new canister as described above. Purge out air.
4. Do not remove an empty can from the gun until you have a new can to replace with.



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Revised 201602



SealBoss® SwellCaulk™ Advantages

- Solvent free, pliable gungrade mastic
- Wet, dry and underwater applications
- Adheres to concrete, PVC, HDPE, steel, fiberglass
- Unconfined expansion 200-350 %
- Flexible product for irregular surfaces
- Easy application
- Chemical resistance, see chart
- Adhesive for SealBoss® SwellTape™

SealBoss® SwellCaulk™ Applications

- Works on irregular, rough and smooth surfaces
- Sealing construction joints of cast in-place or precast concrete
- Many uses including manholes, culverts, cable ducts, pipes and more
- Sheet Piles, sealing sheet pile knuckle joints
- Sealing between waterstop strips and rough concrete surfaces

Product Description

SealBoss® SwellCaulk™ is a single component, hydrophilic, gungrade waterstop. The product is formulated for sealing construction joints, pipe penetrations and other concrete joints of smooth and uneven surfaces. Material cures and swells in the presence of moisture or water thereby creating a compression seal. Curing time decreases with higher temperatures and greater relative humidity. SealBoss® SwellCaulk™ will cure in approximately 24 to 36 hours depending on ambient climate. The product is supplied in sausages or in cartridges. The product is for professional use.

SealBoss® SwellCaulk™ can be used as an adhesive for **SealBoss® SwellTape™**, joint waterstop system, see corresponding data sheet.

Installation Guidelines

SealBoss® SwellCaulk™ should be applied to a dust-free concrete surface which can be uneven, rough, smooth, moist or dry.

Product Preparation

20 oz / 600 ml Sausages:

Place the product firmly in the bulk sausage caulking gun and cut 1/8 inch off the top of the sausage removing the crimp bead. Close the tube and install the nozzle. Nozzles are supplied with the appropriate opening.

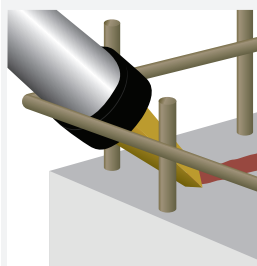
Application Method

Apply SealBoss® SwellCaulk™ in an uninterrupted band 3/8" or 10 mm bead minimum to the middle of the joint or precast element. The concrete cover must be at least 3" or 7 cm on all sides in order to avoid cracks from the pressure of swelling material.

In underwater or very wet conditions (heavy rain), the concrete pour should begin within 2 hours of application to prevent



The SealBoss® SwellCaulk™ Hydro Active Joint Seal Principle



When in contact with water, SealBoss® SwellCaulk™ Sealants develop an expansive swelling pressure. The pressure between the expanding product and the surrounding concrete structure prevents the penetration of water through the joint and provides a durable waterproofing solution.

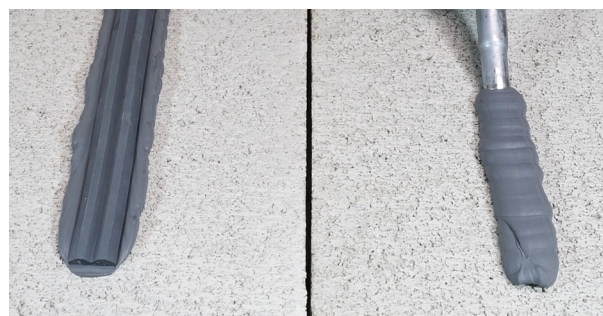
material from premature swelling which may result in reduced effectiveness of the product.

Sheet Pile Applications

SealBoss® SwellCaulk is designed to seal sheet pile knuckles by application of SealBoss® SwellCaulk in an uninterrupted band, gunned in the female sheet pile interlock before driving the sheet piles. The caulked sheet pile interlocks need to be protected from rain and water to avoid premature swelling. SealBoss® SwellCaulk must be fully confined on all sides to perform properly.

Limitations

SealBoss® SwellCaulk™ must be completely confined to perform properly. When used in precast or joints, minimum concrete cover is 3" or 7cm on all sides. Unconfined material may expand beyond design levels and may result in leaks. The product is not suitable for surface caulking applications. At temperatures below 40°F, the product cure time may exceed several days.



SwellTape™ embedded in
SwellCaulk™

Gungrade SwellCaulk™



Technical Properties

Uncured

Appearance	Grey
Solids	100%
Density g/ml	1.4
Flash Point, °C / °F	130°C/266°F ASTM D93
Viscosity	gel / paste
Vertical Slump	1/8"
Skin over	2.5 - 10 hrs

Properties Cured Product:

Elongation at break	600% ASTM D3574
Tensile Strength, psi	300-320 ASTM D412
Resistance to hydrostatic pressure (ft)	>330
Unconfined swelling capacity in contact with water	200-350%

Coverage

	Bead	Coverage
20 oz	1/4"	50-70 ft
	5/16"	24-30 ft
	3/8"	~ 20 ft

Corrosiveness

Non-Corrosive

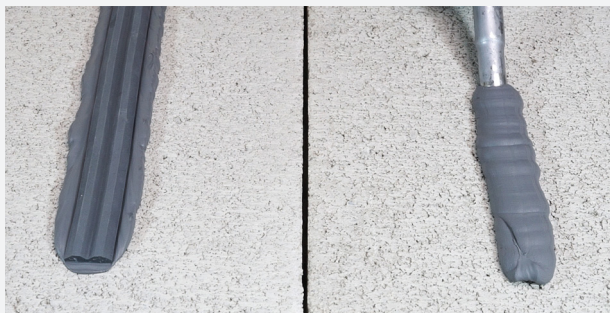
Health and Safety

Protect your health! While working with this material, always use safety goggles, gloves and safety clothing consistent with OSHA and all applicable local and jobsite regulations. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.



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Revised 201802



SwellTape™ embedded in
SwellCaulk™

Gungrade SwellCaulk™

SealBoss® SwellTape Advantages

- Highly swellable construction joint seal
- Waterproofing between concrete pours
- Sealing of pipe penetrations
- Sealing of saw cut joints
- Waterproofing of wall - slab joints
- Easy application
- Can be embedded in SealBoss® SwellCaulk™

Product Description

SealBoss® SwellTape™ is a manufactured hydrophilic waterstop strip that swells on contact with water thereby creating a compression seal. The product is formulated for sealing construction joints, pipe penetrations and other concrete joints. SealBoss® SwellTape™ is applied in the center of the existing cured concrete surface prior to the new pour. SealBoss® Products are designed for professional use.

Installation Guidelines

SealBoss® SwellTape™ is suitable for reinforced joints in concrete structures with a minimal strength of 2175 psi. The product should be applied to a dust-free concrete surface.

Due to the swelling pressure created during expansion, SealBoss® SwellTape™ must be installed at a minimum of 50 mm (2") from each side of the joint edge.

Product attachment:

A) SealBoss® SwellTape™ may be embedded in freshly applied **SealBoss® SwellCaulk™** which serves as adhesive. The use of SealBoss® SwellCaulk™ will further assist in leveling uneven, porous concrete surfaces thereby enhancing the waterproofing properties of the system. Conditions for this method should be dry. For detailed information on SealBoss® SwellCaulk™ application requirements, please refer to SealBoss® SwellCaulk™ data sheet.

B) SealBoss® SwellTape™ may also be nailed to the concrete surface. Shoot suitable concrete nails by spacing them 15 cm (6") apart using a high grade nail gun.

Important: For overlap, crossings and terminations cut SealBoss® SwellTape™ in a 45° angle and connect without a visible gap.



Swelling - The System Principle

When in contact with water, SealBoss® SwellTape™ & SwellCaulk™ sealants develop an expansive swelling pressure.

The pressure between the expanding product and the surrounding concrete structure prevents the penetration of water through the joint and provides a durable waterproofing solution.

Applications around plastic pipe penetrations are limited in diameter to DN 50 (2") cold water and DN 25 (1") for hot water. The high potential swelling pressure of SealBoss® SwellTape™ may result in pipe deformation. Larger diameters can be achieved with strong metal and cast iron pipes.

Limitations

SealBoss® SwellCaulk™ must be completely confined to perform properly.

Product Expansion:

SealBoss® SwellTape™ expands on contact with water.

Product must be in dry condition at time of use.

Avoid any prolonged contact with water prior or during application of product to avoid any premature swelling. Product that is in a state of expansion prior to pouring will result in reduced waterproofing capacity.

Shipping and Storage

Ship in accordance with all applicable laws. Refer to SDS for more information. Store unopened in dry area for up to 12 months from date of production at temperatures between 45°F and 85°F for best performance. See shelf life details on the material packaging. Avoid any contact with water or excessive humidity.



Technical Properties

Uncured

Appearance	Rubbery Profile Tape
Dimensions	5 x 20 mm / other
Solids	100%
Weight	0.12 kg/m / 0.25 lb/yd / other
Substrate Temperature	5-40°C / 40-100°F

Unconfined swelling capacity in contact with

- pure water	~ 1000%
- sea water	~ 500 - 750%

Water impermeability

Positive side 5 bar (75 psi)

EN 12390-8

Water absorption 1.2 kg/m / 2.4 lb/yd

Packaging

200 m (652') / 50 m rolls (163') , 6 kg / 13 lbs per 50 m

Health and Safety

Protect your health! While working with this material, always use safety goggles, gloves and safety clothing consistent with OSHA and all applicable local and jobsite regulations. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.



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Revised 201705



CIVIL & GEOTECHNICAL SOLUTIONS



CIVIL & GEOTECHNICAL SOLUTIONS

	GT PU1403 PU RESIN	GT PU1510 PU FOAM	GT PA2400 ACRYLATE	GT SI2810 SILFOAM	GT SI2850 SILFLEX
 PERMANENT SEALING GROUTING	+	○	+	○	○
 ROCK STABILIZATION GROUTING	+	-	-	+	+
 VOID FILL & CONTACT GROUTING	-	+	-	+	-
 CONSOLIDATED GROUTING	+	+	+	+	+
 TUNNEL FACE GROUTING	-	-	○	+	+
 UMBRELLA GROUTING	○	○	○	+	+
<div>  MAIN APPLICATION  NOT INTENDED  SUITABLE </div>					

GT INJECTION PUMPS

IP-GT1C-SS Injection Pump

Single Component Membrane Pump



IP-GT2C Injection Pump

Two Component Reciprocating Pump



IP-GT3C-SS Injection Pump

Three Component Reciprocating Pump



Injection Lances

- Lances available in Solid Pipe, Perforated, and/or Sleeved
- Suitable for ground stabilization with PU, Silicate, and Microfine
- Combination sets available to suit strata conditions
- Suitable for horizontal and vertical lance probe injection

GT PU1403 PU RESIN

Flexible, dry-reactive polyurethane resins are ideal for stabilization, consolidation, and sealing applications requiring both fast curing and high strengths. Because the GT PU1400 polyurethanes cure in both dry and wet conditions, they are extremely versatile in many subsoil, rock mass, and strata conditions.

Key Features:

- Wet and dry reactions
- High strength product
- Fast base reaction time
- Adjustable reaction times

GT PU1510 PU FOAM

Semi-rigid, hydro-active polyurethane foams provide a fast and immediate solution to water infiltration issues. Because the polyurethane foams exhibit extreme foaming and expansion characteristics, the GT PU1500 Line is ideal for void filling and leak sealing applications. Polyurethane foams are also suitable for solidification and consolidation grouting of non-cohesive soils and substrates.

Key Features:

- Adjustable reaction times
- High expansion rates (30x)
- Fast curing for immediate sealing
- Hydro-active

GT PA2400 ACRYLATE

Highly flexible, ultra low-viscosity polyacrylate systems are widely used in the Geotechnical industry for permanent sealing, consolidation, and umbrella grouting applications. Due to their excellent adhesive and penetrating properties, the GT PA2400 polyacrylates are ideal for sealing of defective membranes, permeation grouting requirements, and various microtunneling applications.

Key Features:

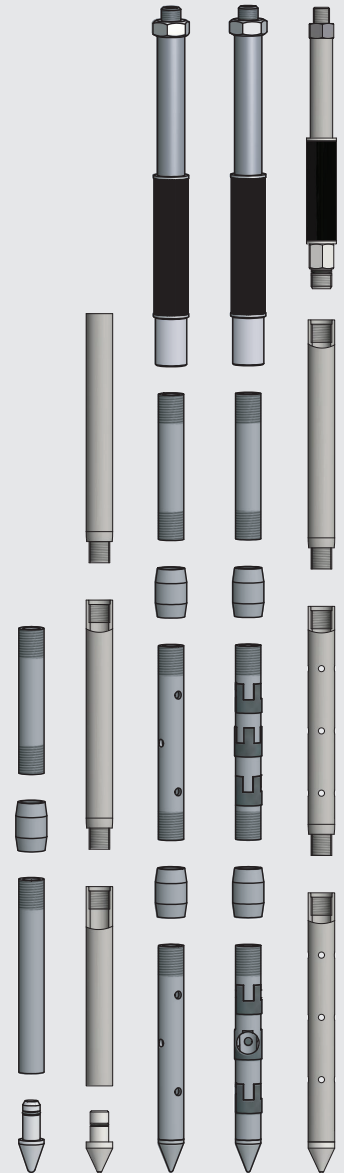
- Ultra low viscosity for optimal penetration
- Adjustable reaction times
- Tenacious adhesion
- Highly flexible absorbing dynamic loads
- Environmentally sound

GT SI2810 SILFOAM & GT SI2850 SILFLEX

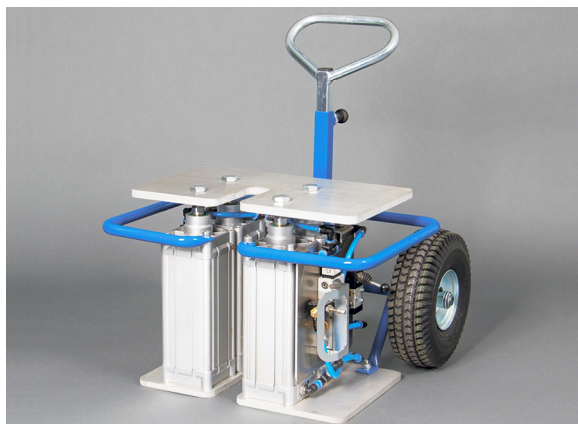
The GT silicate mineral grouts foams are ideal for temporary sealing of foundation pits and tunnel systems. The silicate mineral grouts are fast to develop strength characteristics while providing a cohesive substrate ideal for cutting and planing at the tunnel face.

Key Features:

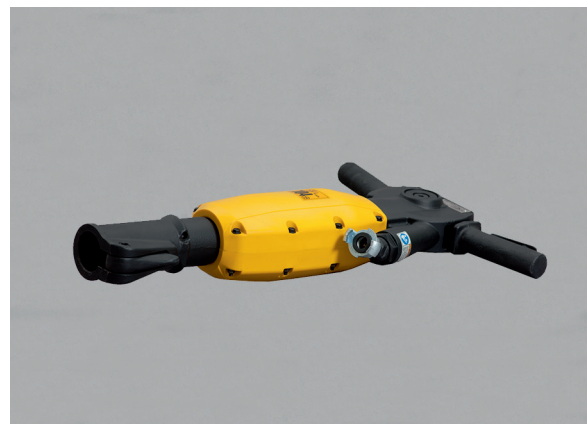
- Fast development of high strengths
- Cuts and planes well
- Environmentally sound
- Good adhesion properties



Removal Tool



Pile Hammer





SealBoss®

SealBoss Corp. USA

Email: info@sealboss.com

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Fax: 714-662-4446

www.SealBoss.com



**INTERNATIONAL
CONCRETE REPAIR
INSTITUTE**

North American
CONSTRUCTION TECHNOLOGY



SealBoss® 2810 SilFoam Applications

Tunnel, Dam & Mining

- Pre-injection TBM tunnel, umbrella injection
- Filling and stabilization of cavities, voids, galleries in tunnel construction, coal and strata
- Consolidation and solidification of fractured rock, sands, gravel, coal
- Consolidation of fissured mountains, rocks, soils, sands
- Mine and ventilation seals
- Slope stabilization

SealBoss® 2810 SilFoam Description

Highly reactive, two component urea-silicate foam to fill & seal cavities and fractured geotechnical formations.

- Fast foaming and sealing properties
- Good adhesion on wet substrate
- Good chemical stability, FCH free
- Resistant to water, diluted acids and alkaline colloids
- Suitable for cutting and planing
- Environmentally sound
- Low Viscosity

Product Description

SealBoss® 2810 SilFoam is a fast-foaming, solvent-free, two-component urea-silicate expansion foam system with outstanding sealing and cavity filling properties. SealBoss® 2810 SilFoam reacts with or without the presence of water.

The product offer predominantly closed cell foam cells and good chemical stability. To achieve most satisfying and permanent results, a combination of SealBoss® 2810 SilFoam with other systems of our product line may be advised.

Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 2810 SilFoam components are injected in the proportion of a 1:1 by volume ratio using a two component injection pump equipped with a static in-line mixer nozzle.

Component A must be stirred separately and thoroughly with a low-speed paddle mixer before use immediately before application. The prepared 1:1 ratio material is to be injected with the **SealBoss® IP2C Gel Injection Pump** with a silicate mixing tube of 8mm diameter, and 500mm length.

A static mixer blends both components and injects them into the mountain side, rock or soil. The curing reaction time of the urea-silicate foam formulation is significantly depending on temperature.

It is recommended that component A be mixed separately with a low speed mechanical mixer at 300 rev/minute max.

Store the components before processing at a minimum temperature of 15-20°C for at least 12 hours in order to reach the recommended processing temperature of between 15°C and 30°C.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove.

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Storage Temperature: If stored in dry conditions, in unopened, tightly closed original containers and within a temperature range of 50 to 85°F (10 to 30°C), the components have a shelf life of 12 months.

Recommended Applications and Limitations

Per the SealBoss® GeoTech application ranges, SealBoss® 2810 SilFoam is recommended for Rock Stabilization, Consolidation, Tunnel Face, and Umbrella Grouting, as well as small void filling and contact grouting. It is not used for a permanent sealing grout.



Technical Properties

Technical Properties		2810 A	2810 B	
Appearance		Liquid	Liquid	
Solids		100%	100%	
Density, g/cm ³		1.17	1.23	
Flash Point, °C / °F		N/A	218°C	
Viscosity, mPas		150	180	
Mixing Ratio		1	1	
Packaging		5 gal 55 gal	5 gal 55 gal	
Storage / Shelf Life		Unopened Containers Only at 10-30°C / 50-85°F in dry, sun free indoors 1 year - 5 gal / 55 gal	Unopened Containers Only at 10-30°C / 50-85°F in dry, sun free indoors 1 years	
Reaction				
Application Temperature		+4°C to +40°C		
Reaction Times, flow limit				
12°C		35 sec		
23°C		25 sec		
30°C		21 sec		
Foam Reaction		Start	End	Free Expansion Rate
12°C		20 sec	60 sec	35 fold
23°C		10 sec	43 sec	35 fold
30°C		8 sec	35 sec	30 fold
Density at max expansion		0.015 g/cm ³		

Safety

Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed. Uncured products should be prevented from entering local drainage system and water courses. Spillage must be collected using absorbent materials such as sawdust and sand, and disposed of in accordance with local regulations.



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Revised 201705



SealBoss® 2850 SilFlex Applications

- Coal mining corridors
- Stabilization of pillar support structures
- Consolidation of fissured mountains, rocks, soils
- Rehabilitation and sealing of corridors and shaft extensions
- Repair of concrete and underwater structures
- Subsoil and rock mass stabilization
- Tunnel face stabilization and crack filling
- Umbrella grouting in TBM areas

SealBoss® 2850 SilFlex Description

Fast-curing, non-foaming, elasticized silicate injection resin to consolidate and seal fissured and fractured geotechnical formations.

- Penetrates fine cracks
- Suitable for underwater application
- Very low viscosity
- Does not absorb water
- Suitable for cutting and planing
- No foaming and environmentally sound
- Great adhesion and final strength
- High plastic ductility under pressure

Product Description

SealBoss® 2850 SilFlex is a fast-reacting, non-foaming, solvent-free, two-component urea-silicate resin system with outstanding sealing and consolidation properties. The product hardens in approximately three minutes at 25°C. To achieve most satisfying and permanent results, a combination of **SealBoss® GT 2800** with other systems of our product line may be advised. Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 2850 SilFlex volume mixing ratio is 1 Part-A to 1 Part-B.

Before application, pre-mix Part-A and Part-B. All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. Plural component equipment with static mixing provision is highly recommended for optimal results.

Component A must be stirred separately and thoroughly with a low-speed paddle mixer before use immediately before application. The prepared 1:1 ratio material is to be injected with the **SealBoss® IP2C Gel Injection Pump** with a silicate mixing tube of 8mm diameter, and 500mm length.

A static mixer blends both components and injects them into the mountain side, rock or soil. The curing reaction time of the urea-silicate foam formulation is significantly depending on temperature.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Recommended Applications and Limitations

Per the SealBoss GeoTech application ranges, SealBoss® 2850 SilFlex is recommended for Rock Stabilization, Consolidation, Tunnel Face, and Umbrella Grouting. It is not used for a permanent sealing grout.

The low viscosity and non-foaming characteristics of SealBoss® 2850 SilFlex make it ideal for creating cohesive substrates well suited for cutting and planing in tunnel and mining applications.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations while working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.



Technical Properties

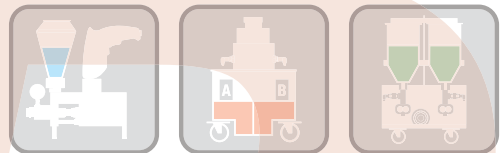
	2850 A	2850 B
Appearance	Brown Liquid	Opaque Liquid
Solids	100%	100% ASTM D 1010
Density, lb/gal	10.2	12.4 ASTM D 1638
Flash Point, °C / °F	200°C / 392°F	N/A ASTM D 1638
Viscosity, cps	160-250	290-490 ASTM D 1638
Mixing Ratio	1	1
Packaging	5 gal 55 gal	5 gal 55 gal
Storage / Shelf Life	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 1 year - 5 gal / 55 gal	Unopened Containers Only at 15-30°C / 58-85°F in dry, sun free indoors 1 years
Reaction		
Application Temperature	+4°C to +40°C	
Gel time, 23°C / 72°F	1-3 min (flow limit - tack free - solid)	
Properties Cured		
Compressive Strength	>7000 psi	7 Day Cure



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Revised 201705

STRUCTURAL EPOXY REPAIR SYSTEMS





Introduction

Thank you for choosing the SealBoss® Concrete Repair System for your chemical injection application. You are now well on your way to a successful and permanent concrete repair solution. In the pages to follow, SealBoss® would like to provide a brief repair technique introduction. At the same time, we would encourage you to familiarize yourself with the complete brochure as we proceed to explain the advantages of the SealBoss® repair systems and what we can offer you as a valued SealBoss® customer. We hope that the following information is of value to you, and thank you again for selecting SealBoss® Corp. as your repair system.

Application Technique Epoxy Injection:

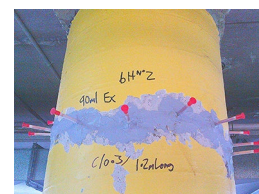
The SealBoss® Epoxy Injection Systems are primarily designed for structural concrete crack and joint repairs.

Some of the typical causes for concrete cracking include:

- Drying shrinkage
- Thermal contraction or expansion
- Settlement
- Lack of appropriate control joints
- Overload conditions that produce flexural, tensile, or shear cracks in concrete and Restraint of movement

Epoxy Injection applications are commonly found in many concrete structures such as parking structures, bridges, tunnels, load bearing columns, and many more structural substrates. The low viscosity resins are injected into standard and hairline cracks or joints and cure to form a rigid, long-lasting, structural bond-seal with a compressive strength exceeding the strength of the concrete. It is recommended to observe the steps as follows:

1. Clean the substrate with wire brush at a distance of approximately ½" (13mm) on both sides of the crack. Wire brush is recommended because grinders often leave concrete dust in the crack. High pressure water can also be used for cleaning.
2. Most cracks can be injected with the **SealBoss® 4040 Epoxy Resin**. For hairline cracks (<1/64", <0.4 mm) it may be of advantage to use the super low viscosity resin as **SealBoss® 4050 SLV Epoxy Resin** to increase resin flow and reduce injection pressures. Measure the width of crack in order to determine the correct product to be injected. Once the crack is exposed, clean, and dry, you may adhere surface ports. Surface ports are typically placed at 5 in (13 cm) to 8 in (20 cm) spacing, with increased spacing on wider cracks. The ports are secured to the crack with **SealBoss® 4500 F QuickSeal Epoxy Paste**. QuickSeal is to be applied 1" wide and approximately 1/8" (3mm) thick across the surface of the crack. Be sure to not cover the bottom opening of the port with paste as this will prohibit the flow of resin into the crack. Surface seal is designed to contain the epoxy resin in the crack. For this reason, best results are found when the entire backside of the crack is sealed.
3. Once the SealBoss® 4500 F QuickSeal Epoxy Paste is fully cured, you are ready to connect the cartridge or bulk applicator to the surface port. The static mixer from the cartridge or **SealBoss® PA3000 Epoxy Injection Pump**, **SealBoss® P3003-2C Injection Pump** or other bulk epoxy injection pump couples to nylon tubing which again couples to the surface port through a series of 3/8-¼" and ¼"-¼" quick disconnects. Vertical cracks are typically injected from the bottom up, while horizontal crack injections are commonly initiated at the point of widest crack width.
4. Continue to pump resin into the surface port until you see material exiting the adjacent port, called port to port travel. At this time, you may cap the port, and move on to the next. Repeat this process as you work your way along the crack.
5. A good practice when performing structural repairs of this nature is to document a quality assurance program such as monitoring the amount of material accepted at each port.
6. After all of the ports are injected, it is recommended to allow adequate time for the epoxy resin to completely cure. Following cure, the ports can be removed by cutting or grinding, and the SealBoss® 4500 F QuickSeal Epoxy Paste may be removed with a grinder. This process will leave a fully penetrated and repaired crack that is now ready for surface treatment to the applicators intended aesthetic results.



SealBoss®

Structural Epoxy Repair Systems



Product Data Sheet

Benefits of SealBoss® Professional Starter Kits™

SealBoss® offers competitively priced Professional Epoxy Injection Starter Kits for contractors that like to turn this repair system into a business.

SealBoss® Professional Kits include everything necessary for an industrial or commercial project including bulk packaging and a high pressure, industrial grade pump such as the SealBoss® PA3000 Epoxy Injection Machine pneumatic injection machine or the versatile SealBoss® P3003-2C Injection Pump.

Upon considering the benefits of the SealBoss® Professional Kits, it is quite easy to recognize the potential offered which includes:

1. Increased service offering
2. Additional revenue stream
3. Niche system solution creating company differentiation
4. Minimal investment for industrial grade system
5. Industrial grade pump for future applications
6. Higher pressure pump = better results
7. Significant amount of referral business
8. Support of established and valued SealBoss® brand



Product Name	Application	Benefits	Image
P3003-2C	High & Low Pressure Polyurethane and Epoxy Injection	<ul style="list-style-type: none"> • Convenient • Electric Drill Operated • Pumps EP and PU Resin • 1:1 and 2:1 Ratios 	
PA3000	High & Low Pressure Polyurethane and Epoxy Injection	<ul style="list-style-type: none"> • Pneumatic • Industrial Grade • 2:1 or 1:1 operation 	

Benefits of SealBoss® Cartridge Starter Kits™

SealBoss® offers complete kit solutions for our cartridge product line. We believe in full system solutions that offer the applicator optimal products for successful repairs. We offer many SealBoss® products in convenient Starter Kit packaging for smaller repairs. Below are a few pictures of the mentioned kits. While the Kit offers significant savings, all products and materials can be reordered individually for future projects. Some of the SealBoss® Starter Kit benefits include:

1. Affordable option for beginning applicators on smaller and manageable projects
2. Smaller packaging for same industrial grade products
3. Individual item reorder options
4. Low investment for high return repair system offering
5. Great way to familiarize yourself with SealBoss® Concrete Solutions

Benefits of SealBoss® Approved Applicator Certificate

You are now more familiar with the SealBoss® epoxy injection systems, may own an industrial grade pump through the purchase of a SealBoss® Professional Kit, and may have repaired many cracks successfully and permanently! At this stage in the repair industry, it is time to consider the SealBoss® Approved Applicator Program.

SealBoss® puts a considerable amount of resources into engineer specification efforts and commercial architects and builders. It is quite common for engineers and architects to require an approved applicator for specialty repairs such as the chemical injection



Approved Applicators gain first access to SealBoss® leads and specifications.

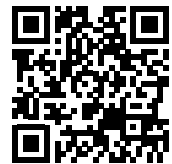
SealBoss® Structural Epoxy Repair Systems



systems. In an effort to increase quality assurance and adhere to engineer specifications, SealBoss® offers a training program for contractors to obtain an Approved Applicators Certificate.

1. Set your company up for success with an approved applicator certificate
2. Qualify yourself in bid meetings with your certificate
3. Gain access to the SealBoss® lead generation system
4. Be included on SealBoss® applicator list for engineers
5. Join the proven SealBoss® Team!

Please contact SealBoss® with all questions concerning our progression program to become an Approved Chemical Injection Applicator. Take the time to experience our commitment to service and knowledge by speaking with one of our experienced representatives. We look forward to hearing from you soon!



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Revised 201810

SealBoss®

4040 LV Epoxy Resin



Product Data Sheet

SealBoss® 4040 Applications

- Structural Concrete Crack Injection
- Welding Cracked Concrete Segments
- Delaminated Slab Repair
- Natural Rock, Masonry, Concrete, Wood
- Gravity Feed or Pressure Injection of Cracks in Concrete, Masonry, Rock, Wood, etc.
- Seal Interior Slabs and Exterior Above-Grade Slabs

Product Description

SealBoss® 4040 LV Epoxy Resin is a 100% solids, hi-mod, 2-component, moisture-tolerant, low-viscosity, high-strength, multipurpose, epoxy injection resin adhesive.

SealBoss 4040 LV Epoxy Resin meets ASTM C-881/ AASHTO M-235, Types I, II, IV

Ask your SealBoss Technician for details. The product is for professional use.

Installation Guidelines

SealBoss 4040 LV Epoxy Resin is composed of two components. The mixing ratio by volume is 2:1 (A:B).

Concrete Crack Injection

SealBoss 4040 LV Epoxy Resin is suited for the injection of cracks and voids in concrete. The low viscosity of the material provides for good penetration at low to medium injection pressures. SealBoss 4040 LV Epoxy Resin bonds well under pressure and offers high tensile and compressive strength properties for structural repairs. Injection can be performed in wet environments. Best results and highest strengths are achieved in dry conditions. Do not modify the product if used for injection. For best results, epoxy injection must only be performed with approved two component injection equipment. SealBoss provides tested and proven two component injection pumps and accessories.

First prepare the surfaces adjacent to the cracks to expose clean, sound concrete. The injection ports should be spaced from 4 in. (10 cm) to 12 in. (30 cm) apart depending on the crack width and the thickness of the member to be injected. Crack should be sealed at the surface with **SealBoss® 4500F QuickSeal Epoxy Paste**.

Other Applications

Surface Preparation Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, grease, curing compounds, impregnations, oils and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means. If filled with additives, such as silica flour, sand or thixotropic fillers, a mixing ratio of 2:1 (SealBoss 4040 LV Epoxy Resin : Additives) should not be exceeded. Warning: Any product modification will change the physical properties of the product and published data will not be applicable.

High Strength, High-Modulus, Low-Viscosity, Epoxy Injection/Grouting/Sealing/Binder Adhesive

SealBoss® 4040 Advantages

- SealBoss Product-Pump-Packer System Solution
- Proven, High Strength, Low Viscosity Product
- Convenient Easy Mix Ratio A:B = 2:1 by Volume
- Advanced Solvent Free Formulation
- This Product is for Professional Use

Chemical Resistance

SealBoss 4040 LV has excellent resistance to a wide range of chemicals including acids and bases, aircraft and automotive fluids, petroleum fuels, cutting oils, etc. It has limited resistance to hydrocarbon solvents. Performance is a function of the specific chemical and concentration, ambient and solution temperatures, and exposure times.

Limitations:

Minimum substrate and ambient temperature 40°F (4°C). Do not thin. Material is a vapor barrier after cure.

Not for injection of cracks under hydrostatic pressure at the time of application. Do not inject cracks greater than 1/4 in. (6 mm) without consulting Technical Service. The maximum in-service temperature should not exceed 20°F below the HDT in bonding applications subjected to substantial and sustained shear stresses that may cause creep.

Do not add solvents or otherwise thin this material. Color may alter due to variations in lighting and/or UV exposure.

Do not use this product for anchor bolting. Sealboss Corp. declines any responsibilities, warranties, liabilities if used for anchor bolting applications.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During any pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

SealBoss® 4040 LV Epoxy Resin

SealBoss®

4040 LV Epoxy Resin



Product Data Sheet



Technical Data:

Mix ratio	2:1, Part A to Part B by volume
Color (mixed)	Amber or purple
Viscosity (ASTM-2393)	approx. 350 cp mixed at 75°F (25°C) Part A 400 cp / Part B 150 cp
Gel Time, 100 g	
@ 50° F / 10° C (ASTM D-2471)	34 minutes
@ 73° F / 23°C (ASTM D 2471)	14 minutes
Compressive Yield Strength (ASTM D-695)	16,400 psi / 113 MPa
Compressive Modulus (ASTM D-695)	568,000 psi / 3910 MPa
Concrete Bond Strength (ASTM C-882)	2 days 3,100 psi / 21 MPa 14 days 3,900 psi / 26.9 MPa
Tensile Strength (ASTM D-638)	10,200 psi / 70 MPa
Flexural Strength (ASTM D-790)	12,000 psi / 82 Mpa
Flexural Modulus (ASTM D-790)	550,000 psi / 3790 Mpa
Elongation at break (ASTM D-638)	2.1%
Heat Deflection Temperature (D-648)	60°C / 140°F

Meets ASTM C-881/ AASHTO M-235, Types I, II, IV

Cure schedule, 7 days at 73° ± 4° F and test temperature, 73° ± 4° F unless otherwise indicated

Coverage 231 cubic inches per gallon.

Shelf Life 1 year for cartridges, 3 years in original unopened containers stored indoors at temperatures between 40-95°F.

Packaging

14.5 oz Cartridge
15 Gallon Kit
165 Gallon Kit

Handling and Toxicity: For hazard warnings, safe handling and first aid instructions, CAREFULLY READ THE SAFETY DATA SHEETS (SDS) AND CONTAINER WARNING LABELS.

Part A: Liquid epoxy resin, HMIS Health Hazard Rating- 2 (Moderate Hazard). Warning! Causes eye and skin irritation. May cause allergic skinreaction. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Part B: Liquid epoxy hardener, HMIS Health Hazard Rating- 3 (Serious Hazard). Contains alkaline amines. Danger! Causes severe eye and skin burns. May cause allergic skin and respiratory reaction. Combustible, corrosive. Do not get in eyes or skin or on clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and open flame.

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Revised 202202

SealBoss®

4050 SLV Epoxy Resin



Product Data Sheet

SealBoss® 4050 Applications

- Structural Concrete Crack Injection
- Welding Cracked Concrete Segments
- Delaminated Slab Repair
- Natural Rock, Masonry, Concrete, Wood
- Gravity Feed or Pressure Injection of Cracks in Concrete, Masonry, Rock, Wood, etc.
- Seal Interior Slabs and Exterior Above-Grade Slabs

Product Description

SealBoss® 4050 SLV Epoxy Resin is a super low viscosity, 100% solids, hi-mod, 2-component, moisture-tolerant, high strength, multipurpose, epoxy injection resin adhesive.

SealBoss 4050 SLV Epoxy Resin meets ASTM C-881/ AASHTO M-235, Types IV.

Ask your SealBoss Technician for details. The product is for professional use.

Installation Guidelines

SealBoss 4050 SLV Epoxy Resin is composed of two components. The mixing ratio by volume is 2:1 (A:B).

Concrete Crack Injection

SealBoss 4050 SLV Epoxy Resin is suited for the injection of cracks, voids and fissures in concrete, delaminations in concrete, masonry, stone and sealed wood. The very low viscosity of the material provides for superior penetration at low to medium injection pressures. SealBoss 4050 SLV Epoxy Resin bonds well under pressure and offers high tensile and compressive strength properties for structural repairs. The product cures to a tough, resilient polymer with excellent load transfer capabilities. Injection can be performed in wet environments. Best results and highest strengths are achieved in dry conditions. Do not modify the product if used for injection. For best results, epoxy injection must only be performed with approved two component injection equipment. SealBoss provides tested and proven two component injection pumps and accessories.

First prepare the surfaces adjacent to the cracks to expose clean, sound concrete. The injection ports should be spaced from 4 in. (10 cm) to 12 in. (30 cm) apart depending on the crack width and the thickness of the member to be injected. Crack should be sealed at the surface with **SealBoss® 4500F QuickSeal Epoxy Paste**.

Other Applications

Surface Preparation Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, grease, curing compounds, impregnations, oils and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means.

Super Low Viscosity High Strength, High Modulus, Epoxy Injection Resin Adhesive

SealBoss® 4050 Advantages

- SealBoss Product-Pump-Packer System Solution
- Super Low Viscosity, Deep Penetration Formula
- Convenient Easy Mix Ratio A:B = 2:1 by Volume
- Advanced Flow, Solvent Free Formulation
- VOC Free
- This Product is for Professional Use

Chemical Resistance

SealBoss 4050 SLV has excellent resistance to a wide range of chemicals including acids and bases, aircraft and automotive fluids, petroleum fuels, cutting oils, etc. It has limited resistance to hydrocarbon solvents. Performance is a function of the specific chemical and concentration, ambient and solution temperatures, and exposure times.

Limitations:

Minimum substrate and ambient temperature 37°F (3.8°C). Do not thin. Material is a vapor barrier after cure.

Not for injection of cracks under hydrostatic pressure at the time of application. Do not inject cracks greater than 1/4 in. (6 mm) without consulting Technical Service. The maximum in-service temperature should not exceed 20°F below the HDT in bonding applications subjected to substantial and sustained shear stresses that may cause creep. Do not add solvents or otherwise thin this material. Color may alter due to variations in lighting and/or UV exposure.

Do not use this product for anchor bolting. Sealboss Corp. declines any responsibilities, warranties, liabilities if used for anchor bolting applications.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove.

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations while working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During any pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

SealBoss® 4050 SLV Epoxy Resin

SealBoss®

4050 SLV Epoxy Resin



Product Data Sheet



Technical Data:

Mix ratio 2:1, Part A to Part B by volume
Color (mixed) Amber or purple
Viscosity (ASTM-2393) approx. 200 cp mixed at 75°F (25°C)
Part A 300 cp / Part B 95 cp

Gel Time, 100 g
@ 73° F / 23°C (ASTM D 2471) 20 minutes
@ 40° F / 10° C (ASTM D-2471) 85 minutes

Compressive Yield Strength (ASTM D-695) 16,000 psi / 110 MPa
Compressive Modulus (ASTM D-695) 537,000 psi / 3702 MPa
Concrete Bond Strength (ASTM C-882) 2 days 3,600 psi / 24.8 MPa
14 days 3716 psi / 25.6 MPa
Tensile Strength (ASTM D-638) 10,400 psi / 71 MPa
Flexural Strength (ASTM D-790) 12,000 psi / 82 Mpa
Flexural Modulus (ASTM D-790) 490,000 psi / 3378 Mpa
Elongation at break (ASTM D-638) 2.4%
Heat Deflection Temperature (D-648) 60°C / 140°F

Meets ASTM C-881/ AASHTO M-235, Types IV

Cure schedule, 7 days at 73° ± 4° F and test temperature, 73° ± 4° F unless otherwise indicated

Coverage 231 cubic inches per gallon.

Shelf Life 1 year for cartridges, 3 years in original unopened containers stored indoors at temperatures between 40-95°F.

Packaging

14.5 oz Cartridge
15 Gallon Kit
165 Gallon Kit

Handling and Toxicity: For hazard warnings, safe handling and first aid instructions, CAREFULLY READ THE SAFETY DATA SHEETS (SDS) AND CONTAINER WARNING LABELS.

Part A: Liquid epoxy resin, HMIS Health Hazard Rating- 2. Warning! Causes eye and skin irritation. May cause allergic skinreaction. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Part B: Liquid epoxy hardener, HMIS Health Hazard Rating- 3. Contains alkaline amines. Danger! Causes severe eye and skin burns. May cause allergic skin and respiratory reaction. Combustible, corrosive. Do not get in eyes or skin or on clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and open flame.

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SealBoss®

4500 F QuickSeal Epoxy Paste



Product Data Sheet

Applications / Characteristics

- Fast Cure - Non-Sag Formula
- Seals cracks and around injection ports prior to pressure-injection grouting
- High-modulus, high-strength, 1: 1 ratio
- ASTM C 881 Compliant
Types I, II, IV, V Grade 3, Class B & C

Fast Cure High Strength Epoxy Paste

- SealBoss® Product-Pump-Packer System Solution
- Bulk & Cartridge System
- This Product is for Professional Use

Product Description

SealBoss® 4500 F QuickSeal Epoxy Paste is a fast cure, 100% solids, high modulus, non-sag, non-shrink two component epoxy adhesives that bonds to concrete and other surfaces. SealBoss® 4500 F QuickSeal Epoxy Paste meets or exceeds requirements of ASTM C 881 (Types I, II, IV, & V Grade 3, Class B & C)

Installation Guidelines

Always test a mixed product to insure that the material will harden properly before proceeding. For bulk applications:

To seal cracks for injection grouting
Place the mixed material over the cracks to be pressure injected and around each injection port. Allow sufficient time to cure before pressure injecting.

As a Bonding Adhesive:

Apply the mixed SealBoss® 4500 F QuickSeal Epoxy Paste to the prepared substrates. Work into the substrate for positive adhesion. Secure the bonded unit firmly into place until the epoxy has cured.

Sealboss® Corp. specifically declines any responsibilities, warranties, liabilities if used in load bearing applications.

Concrete Application Recommendations:

Surface Preparation:

Surface must be clean, dry and sound. Remove dust, grease, waxes, foreign particles and disintegrated materials.

Preparation Work:

Concrete: Sand blast or use other approved mechanical means.
Steel: Sandblast to white metal finish.

Bulk Mixing:

Pre-Mix each component separately. Mix 1 part A (resin) to 1 part B (hardener) for 3 minutes using a Jiffy Mixer. Mix at slow speed (less than 850 rpm) to avoid air entrapment. Remember, you will have less working time at higher temperatures. Mix only the quantity that can be used within its pot life and do not allow mixed material to reside in static mixing head or mixer for more than two minutes or nozzle blockage may result.

Never thin with solvents. Surface and ambient temperature must be 45°F (7°C) or above. For applications with constant high temperature (above 120°F, 49°C), contact SealBoss®. Material will soften at very high temperatures. Do not expose

stored product to cold temperature (below 40°F, 5°C) for any length of time.

Note: High temperature will accelerate the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F and the gel time will double for each 10° to 15° drop below 75°F (24°C). Minimum age of concrete must be 7 days and considered fully cured, depending on curing and drying conditions.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations. While working with products. Wear appropriate safety goggles, gloves and safety clothing at all times. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Forced local exhaust is recommended to effectively minimize exposure. Do not weld on, burn or torch epoxy material. Hazardous vapor is released when an epoxy is burned. Further protection: emergency showers and eyewash stations. If eye contact occurs flush with water for 15 minutes. Get immediate medical attention as needed.

SealBoss® 4500 F QuickSeal Epoxy Paste

SealBoss®

4500 F QuickSeal Epoxy Paste



Product Data Sheet

Technical Data:

Components

Weight per Gallon (mixed), lb	Resin, Hardener
Mix Ratio, pb volume (pbw)	11.9
Color	1:1 (1:1.4)
Consistency	Gray
Gel Time 100 grams at 75°F 28°C	Non-Sage Paste
	approx. 9 min.

Cured Product Characteristics

Hardness, Shore D	88	ASTM D2240
Compressive Strength, psi (MPa)	12,600 (87)	ASTM D 695
Compressive Modulus, psi (MPa)	356,900 (2460)	ASTM D 695
Tensile Strength, psi (MPa)	4,400 (30.5)	ASTM D 638
Elongation at Break, %	1	ASTM D 638
Bond Strength, psi (MPa) 2-day	2430 (17)	ASTM D 882
Bond Strength, psi (MPa) 14-day	2750 (19)	ASTM D 882
Heat Deflection Temp, °F (°C)	131°F (55°C)	ASTM D 648
Water Absorption, % (7-day)	0.2	ASTM D 570
Linear Shrinkage, %	<.005	ASTM D 2566

ASTM C 881 (Types I, II, IV, & V Grade 3, Class B & C)

Sealboss® Corp. specifically declines any responsibilities, warranties, liabilities if used in anchor / load bearing applications.

Coverage

22 oz cartridge yields 39 cu in of epoxy gel adhesive.
Shelf Life: 1 year for cartridges, 2 years in original unopened containers stored indoors at temperatures between 40-95°F.

Packaging

22 oz Cartridge
1 Gallon Kit

Injection Guns, Dispensers

We supply a wide selection of injection guns for use with the Cartridge System. Systems are either manual, electric or pneumatic. Please see injection gun data sheets for more detailed information or call our technical support.

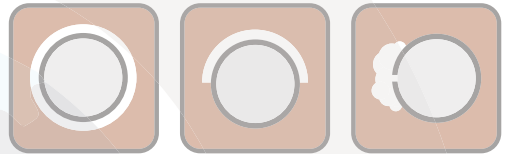
Butyl Glycidyl Ether

The EPA (SARA Title III, section 312) lists BGE as "Toxic" (per ANSI 2129.1) by skin absorption and an immediate health hazard.

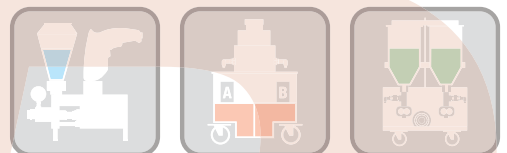


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Revised 202201



QUICKFIX FLOOR REPAIR & COATINGS

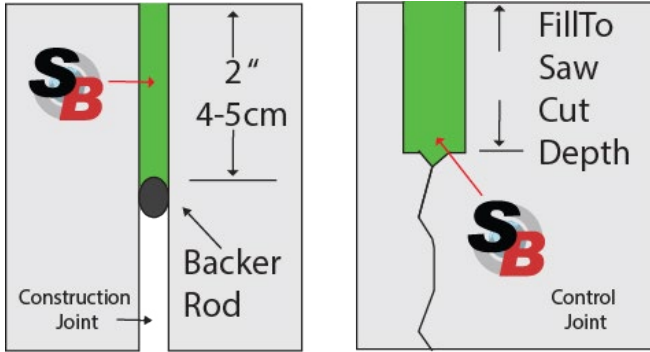


SealBoss®

QuickFix Floor Repair



Product Data Sheet



SealBoss® QuickFix Joint Filler Technology is based on the most updated developments in polyurea, polyurethane, and epoxy formulations.

The **SealBoss® 6500 QuickFix** Line offers new properties in terms of application speed, low temperature cure, durability and feasibility. The **SealBoss® 6880 EP QuickFix** offers heavy duty properties at traditional gel times. The **SealBoss® 6060 QuickFix** provides high strength solutions to compliment the Joint Filler products.

To ensure a complete chemical cure, color and desired physical properties it is important to premix the product components each sufficiently, condition it to room temperature and to follow the preparation guidelines closely. As with any chemical product, the conditions during the application determine the quality of the results. Please read guidelines that help ensure a smooth fit and finish and longevity of your repair. Follow the basic application steps for successful joint filling and crack repair applications.

Timing For Product Installation

The American Concrete Institute (ACI) recommends minimum cure of 30 days before installing joint filler material to prevent adhesion failures, and to allow control and construction joints time to settle to their ultimate width through the concrete cure & shrinkage process. In a controlled freezer/cooler environment floors should be stabilized at general operating temperatures for 7 days prior to installation.

Installation should be done during the thermal contraction period of the concrete when it is colder. In hot climates morning hours suit that purpose. High concrete temperatures may accelerate cure process unevenly.

Preparation Of Joints And Cracks

It is essential that all cracks and joints are dry at the time of application. Presence of moisture from outside sources or internal concrete moisture content, can cause bubbling and blistering in the cured product. Such affected product must be cut, removed, and reapplied.

It is recommended that all cracks be chased and all joints be cut with dustless concrete saw with a diamond blade. The blade must be run along both joint walls (in one pass in narrow joints) to restore concrete surfaces to clean, bare condition. Joints must be completely free of concrete dust and other debris and must be cleaned to their full depth or 2 inch minimum. The absence of debris and freshly cut edges provide the necessary surface to which the polyureas adhere. Any crack and joint contamination and large variations in width

Saw-Cut Control Joints

Per American Concrete Institute, ACI 504R-12

- A minimum 3:2 (depth:width) shape factor is preferred
- Please refer to the ACI Guideline for detailed recommendations

Construction Joints

- Depth of joint to be 2" (50 mm)
- For joints exceeding 2" (50 mm) use backer rod or other approved method to create 2" (50mm) joint depth
- Do not use backer rod in joints with depths less than 2" (50mm)
- Joint width typically predetermined by engineer during planning and construction

and joint proportions may affect the physical properties of the material and joint dynamics and can lead to adhesive or cohesive separations. In most cases when detected early after a fresh installation, separation can be addressed with the addition of more material to the separated areas.

Note: In certain scenarios structural failures can cause crack and joint separations running the entire way through the repaired areas. This is not a product failure and must be addressed by structural strengthening of the slab or substrate.

Recommended: Double Pass Method

Many potential problems, such as uneven depth, moisture reactions and leakage into the substrate can be minimized by applying the jointfiller in two passes following in short sequence. The first pass should be a quick effort to apply an initial layer of product to the substrate and seal the surface. Any imperfections of the first layer will be covered with second, precisely applied pass minutes later when the filler meets the initial layer and now has a perfectly primed surface.

Types Of Joints

We differentiate **Saw-Cut Control Joints** (limited depth, cut into slab to prevent mainly shrinkage cracks) and **Construction Joints** (full slab depth between two concrete pours (forms) by design, to prevent mainly concrete expansion (thermal) cracks).

Post Installation

Do not remove material overfill prior to full cure. Filler profile must be flush with floor surface to provide proper joint protection. Use appropriate shaving or grinding tools. If filler is concave, a cap bead of additional product can be applied after roughening surface and cleaning with a solvent.

SealBoss®

QuickFix Floor Repair



Product Data Sheet

SealBoss® QuickFix Jointfiller Applications In Bulk - JointMaster Pro2 G3i Digital

Before applying product to the joint, first discard material through static mixer until a uniform mixture is achieved in order to eliminate any uncured sections (this must be done for each mixer replacement). Replace mixers regularly. The pump is not designed to apply product under pressure but to dispense the product evenly at a 1:1 ratio. Any obstruction or cured material in the hoses, pumps, or mixers can cause back pressure which may blow seals or simply throw the ratio off. Keep tank valves open during use. If the valves on the top of the pump are closed during operation, it could cause a suction effect which then distorts ratios. While SealBoss® QuickFix products offer the advantage of large application temperature ranges, the product itself must be conditioned to room temperature (77°F / 20°C). Tank specific heater bands are available. Clean the manifold and pumps with using grease zerks. Mixers must be replaced after each break, and the entire pump thoroughly cleaned after each run.



SealBoss® Quickfix Cartridge System Quick Guide

All QuickFix products must be applied in completely dry environments. SealBoss® QuickFix cartridges **must be conditioned to room temperature and shaken thoroughly and vigorously** (a minute or longer) prior to connecting the static mixer. This will evenly disperse the hardener and pigments and prevent variations of color and isolated spots of uncured product which may otherwise present themselves during the cure process following application. Inconsistencies in product cure and color are a direct result of insufficient premixing of product at room temperature. Following mixing, attach plastic static mixers for dispensing. Low viscosity product may need a flow reducer. Prior to applying material to the joint discard a small portion of dispensed product until the mixture is even. Fast reaction times may cause material to cure inside the mixer if dispensing is halted or too slow. It is recommended to dispense entire cartridge at a steady flow and pressure without interruptions. If application needs to stop for any reason, it is recommended to replace the static mixer. Any cured product inside of the mixer can cause the mixture to be off ratio which may result in variations of color and isolated spots of uncured product.



JointMaster Pro2 G3i Digital
Two Component Joint Filler
Pump with Heater Band option

If desired, dry silica sand or kiln heated sand can be added to the product up to 50% by volume. Added aggregate will make the product more rigid. While QuickFix products offer the advantage of large application temperature ranges, the product itself must be conditioned to room temperature (77°F / 20°C). The cartridges can most easily be maintained via the use of warm water basins. Lower temperatures result in thicker products and prolonged reactions while higher temperatures result in thinner products and accelerated reactions. If possible excessive substrate heat should be avoided (apply in the morning when in hot climates).



Please follow the guidelines and recommendations closely to achieve the best and most rewarding results.

For detailed information please refer to the Product Data Sheets, SDS and our SealBoss.com website. Your Sealboss® Technical Representative will gladly assist you with any further questions you may have.



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Revised 201705



- **Heavy-Duty Formula**
Does not deflect under loads, protects edges from spalling
- **Rapid Setting**
Moderate traffic loads after fifteen (15) minutes, Full traffic after thirty (30) minutes. (70°F/21°C)
- **Extremely Wide Temperature Range**
Use in coolers/freezers down to minus 20°F (-29°C), and temperatures up to 120°F (49°C)

Product Description

SealBoss® 6060 QuickFix Pro Spall Repair is an advanced polyurethane formulated, low viscosity, rapid set, high strength, ultra low viscosity, self leveling, two component, 1:1 ratio by volume, 100% solids repair material. This strong and rigid material has been designed to fix spalled concrete surfaces and cracks, and to rebuild damaged control joints effectively and quickly. SealBoss® 6060 QuickFix works for concrete and asphalt repairs. The product penetrates into small cracks and forms a high strength adhesive bond between broken structures with the benefit of sealing the base against further erosion from water in outside applications. The tack free time is 5 to over 15 minutes depending on temperature. Exposure to sunlight (UV) may cause discoloration, however the physical properties are essentially unaffected. SealBoss® 6060 QuickFix is slightly moisture sensitive and should be applied on dry surfaces. Please refer to our flexible products such as **SealBoss® 6500 QuickFix** for areas where movement is required. Ask your SealBoss® technician for details. The product is for professional use.

Basic Use

SealBoss® 6060 QuickFix Pro Spall Repair is designed to repair spalled joints, fill horizontal cracks and patch holes and surface defects. **SealBoss® 6060 QuickFix** can be used to fill and protect joints in industrial concrete floors that are subject to heavy loads and hard wheels. The product supports the structures with minimal deflecting. **SealBoss® 6060** can be used in ambient temperature and or freezer applications.

Installation Guidelines

Clean the area of debris and contaminants, such as oils, loose materials, dirt, rubber etc., to allow for good adhesion of the product. Expose clean rough concrete for best results. If using a saw to cut concrete and clean the crack, remove all the dust from the cut out area. Make sure the area is dry. All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture.

For bulk mixing, pre-mix each component thoroughly. Proportion equal parts by volume of Component "A" and Component "B" through appropriate metered mixing equipment. Mix only the quantity that can be used within pot life and do not allow mixed material to reside in static mixing head or mixer for more than 1 minute or nozzle blockage may result. Do not add solvents. Minimum age of concrete must be 21-28 days, depending on curing and drying conditions prior to applications.

Deep Crack / Joint Application

Apply product to the bottom of the crack and work up in

Fast Cure, Low Viscosity Road & Highway, Floor Crack & Spall Repair System Concrete
SealBoss® 6060 QuickFix Advantages

- 100% Solids, VOC Free, Low Emitting Sealant
- Produces High Strength Quickly
- Excellent Aggregate Bonding Properties
- Short 'Return to Service' Times
- Essentially Odorless, Resistant to Petrochemicals
- Grade Matching, Patching, Fill & Repair before Coating
- Interior and Exterior use

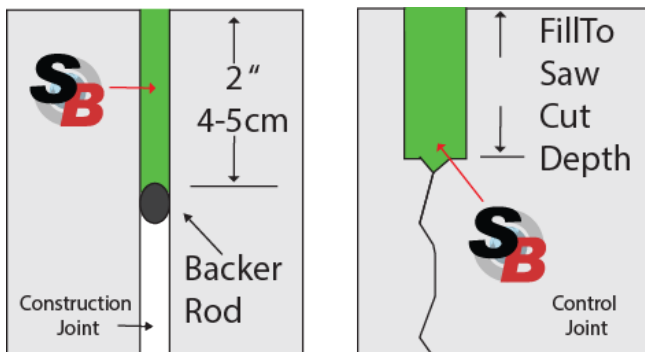
layers. First apply product, then deliver aggregate into the applied product. Add more product & aggregate. Repeat the steps until reaching the finished grade.

Aggregate

The use of approved non reactive aggregate with SealBoss® 6060 QuickFix will increase gel and cure times. Aggregate must be free of moisture. In exterior applications, the use of dry silica sand (grit sizes from 12 to 60) will reduce discoloration from UV Rays. Certain gravel grades may be used on large applications. Ask your SealBoss technician for details.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.



Tips for Cartridge Users

- Shake cartridge prior to all applications and each time it is used for a minimum of 1 minute.
- Remove air from system - prime cartridge by slowly dispensing product from cartridge into mixer in vertical orientation until mixer is completely filled.
- Discard a small amount of product prior to application. Ratio may be slightly off when initial product travels through static mixer. Once uniform mixture is observed, product is ready for application.
- Do not apply to wet or damp substrates. Excessive moisture may cause bubbles or uneven reaction.



TECHNICAL DATA

Viscosity (Mixed)
Hardness, Shore "D", durometer
Hardness, Shore "A",
Tensile Strength
Tear Strength
Elongation %
Compressive Strength (neat)
(with sand)

Bond Strength
Pot Life:
6060 QuickFix C-881 77° - 100 Grams
Shelf Life:
Storage Conditions:
Disposal:

PACKAGING:

Chemical Resistance:

Chemical

Chemical	Result
Acetic Acid 10 %	R
Acetone	RC
Battery Acid (Sulfuric Acid)	RC
Brake fluid	R
Chlorine (2,000 ppm in H ₂ O)	R
Citric Acid	R
Gasoline	R
Hydraulic Oil	R-1
Methanol (5%)	RC
Motor Oil	R-1
Toluene	RC
Vinegar	R
Water	R
Xylene	R

Test Procedure; ASTM D-1308 at 72°F

R=Recommend

RC=Recommend Conditional,
Some swelling or discoloration

N=Not Recommend

1=Some discoloration only

Application Guns

We supply pneumatic, electric

90 cps	
68 to 72D	ASTM D2240
>95 A	ASTM D2240
4600 psi	ASTM D412
489 lb/mil	ASTM D624
6% to 8%	ASTM D412
3900 psi	
4800 psi	ASTM C109
3450 psi	ASTM 882-99

Approx. 1-3 minutes

1 year in original unopened container.

Store at 55-95°F.

In accordance with all applicable laws and regulations:

Empty containers must be drip free

22 oz cartridges, 1 / 5 / 55 Gallon Kits



JointMaster Pro2 G3i Digital
Two Component Pump



Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations. While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

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Revised 201904

SealBoss®

6060 QuickFix FlexTemp Pro Spall Repair



Product Data Sheet
Spall & Crack Repair
Mender & Welder



SealBoss® 6060 QuickFix

Product Description

SealBoss® 6500 QuickFix features new generation polyurea technology resulting in unique physical properties and high temperature range and cure time benefits. 6500 is a rapid-setting, self leveling, two component, 1:1 ratio, 100% solids, flexible, polyurea polymer product.

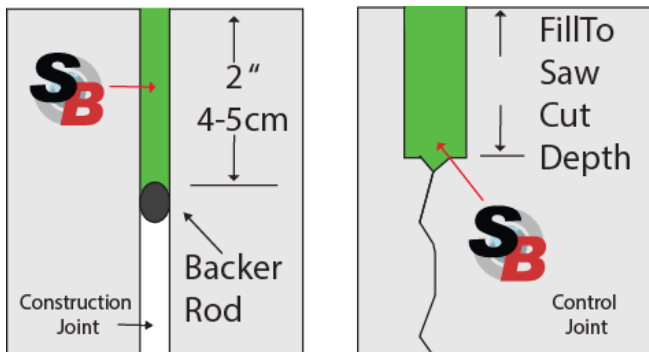
SealBoss® 6500 QuickFix is a high quality joint and crack filler for concrete substrates in applications that are time critical. It works well in adverse temperature conditions as the material cures in ambient temperatures from -28°C (-20°F) to 54°C (130°F). The tack free time is 5 to over 15 minutes depending on temperature. This permits to reopen the jobsite to traffic just one hour after application in most conditions.

Installation Guidelines

Clean the area of debris and contaminants, such as oils, loose materials, dirt, rubber etc., to allow for good adhesion of the product. Expose clean rough concrete for best results. If using a saw to cut concrete and clean the crack, remove all the dust from the cut out area. Make sure the area is dry. All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture.

For bulk mixing, pre-mix each component thoroughly. Proportion equal parts by volume of Component "A" and Component "B" through appropriate metered mixing equipment. Mix only the quantity that can be used within 2 minutes and do not allow mixed material to reside in static mixing head or mixer for more than 1 minute or nozzle blockage may result.

Do not add solvents. They will prevent proper cure. Not for sealing cracks and joints under hydrostatic pressure or with extreme movement. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days, depending on curing and drying conditions prior to applications. Exposure to sunlight (UV) may cause discoloration, however the physical properties are essentially unaffected. Product may exhibit bubbling and/or compromised adhesion in excessive concrete or ambient moisture levels. Ask your SealBoss® technician for details. The product is for professional use.



Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Fast Cure Joint Filler & Joint Repair System Clear, Grey and Custom Colors

SealBoss® 6500 QuickFix Applications

- **Class 5-9 Concrete Floors**, applications which receive heavy vehicle traffic, such as fork lifts or steel wheeled carts
- To fill cracks, damaged control joints, construction joints on horizontal concrete
- Highly flexible, allowing slab movement, yet strong enough to protect the vertical edges of concrete from spalling under heavy loading

SealBoss® 6500 QuickFix Advantages

- **Low Emitting Sealant/Filler**
100% Solids, VOC Free, Essentially Odorless
- Remains Flexible, Even in Cold Temperatures
- Return Project to Service in 60 Minutes
- Cures From -28°C / -20°F to 54°C / 130°F
- Reduced Moisture Sensitivity
- Resistant to Petrochemicals

Typical Application Environments

- Industrial Facilities
- Warehouse Floors
- Manufacturing Facilities
- Pulp and Paper Mills
- Bottling and Canning Facilities
- Airports
- Water and Waste Water Treatment
- Cold Storage Facilities
- Food Processing Facilities
- Freezers

Tips for Cartridge Users

- Shake cartridge prior to all applications and each time it is used for a minimum of 1 minute.
- Remove air from system - prime cartridge by slowly dispensing product from cartridge into mixer in vertical orientation until mixer is completely filled.
- Discard a small amount of product prior to application. Ratio may be slightly off when initial product travels through static mixer. Once uniform mixture is observed, product is ready for application.
- Do not apply to wet or damp substrates. Excessive moisture may cause bubbles or uneven reaction.

JointMaster Pro2 G3i Digital Recommended heavy duty joint fill machine



Technical Data

PHYSICAL PROPERTIES:

Color (A+B)
Viscosity (mixed)
Mix Ratio (by volume)
Pot Life 0.1 kg at 25°C / 77°F
Tack Free, Thin Film at 25°C / 77°F
Initial Cure at 25°C / 77°F
Final Cure at 25°C / 77°F
% of Elongation
Service Movement
Tensile Strength, psi
Bond Strength, fully cured
clean concrete, psi
Shore "A" Hardness
Resistance to Chemicals
Color Pack (Optional):
ISO Side:
PACKAGING:
1:1 ratio by volume units:
Shelf Life, Storage Conditions:
Disposal:

Charcoal Grey, Black, or Other
Self Leveling

1:1
30-60 sec standard
5-8 min
15 min
60 min
180-200
± 20%
900-1000

ASTM D-412

ASTM D-412

500
75-85A
ASTM C-882
ASTM D-2240

Resistant to Most Organic Solvents, Mild Acids, Alkali & Microorganisms

Add Color Pack to Component B

Component A is ISO-Side of the product

1 & 5 Gallon Units, Drums

22 oz cartridges (yields 39 cu in.)

1 year in original unopened container. Store at 55-95°F,
In accordance with all applicable laws and regulations. Empty
containers must be drip free

Chemical Resistance:

Test Procedure; ASTM D-1308 at 72°F

R=Recommend RC=Conditional,
some swelling or discoloration

N=Not Recommend

1=Some discoloration only

Acetic Acid 10 % R, Acetone C

Battery Acid (Sulfuric Acid) C

Brake fluid R, Chlorine (2,000ppm in H₂O)R

Citric Acid R, Gasoline R

Hydraulic Oil R-1, Methanol (5%) Gasoline C

Motor Oil R-1, Toluene C, Vinegar R

Water R

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Approximate Coverage Chart

Joint Size (US)	LF/Gal.	Joint Size (Metric)	M/Gal
1/8" x 11/2"	100	3 x 38	30
1/8" x 13/4"	85	3 x 44	26
1/8" x 2"	75	3 x 50	23
3/16" x 3/4"	135	5 x 19	41
3/16" x 1"	100	5 x 25	30
3/16" x 11/4"	85	5 x 31	26
3/16" x 11/2"	70	5 x 38	21
3/16" x 13/4"	60	5 x 44	18
3/16" x 2"	50	5 x 50	15
1/4" x 1"	80	6 x 25	24
1/4" x 11/4"	60	6 x 31	18
1/4" x 11/2"	50	6 x 44	14
1/4" x 13/4"	45	6 x 50	12
1/4" x 2"	40	9 x 25	15

Cartridge Material Consumption

Filling joint slots in given dimensions.

Feet per 22 oz. Cartridge

Width	1/4"	1/2"	3/4"	1"	1-1/4"	1-1/2"
Depth						
1/4"	52.9					
1/2"	26.5	13.2				
3/4"	17.6	8.8	5.9			
1"	13.2	6.6	4.4	3.3		
1- 1/4"	10.6	5.3	3.5	2.6	2.1	
1-1/2"	8.8	4.4	2.9	2.2	1.8	1.5
1-3/4"	7.6	3.8	2.5	1.9	1.5	1.2
2"	6.6	3.3	2.2	1.6	1.3	1.1
2-1/2"	5.3	2.6	1.8	1.3	1.1	.87
3"	4.4	2.2	1.5	1.1	.87	.73



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Revised 202009

SealBoss®

6880 EP QuickFix



Product Data Sheet

Industry Standard Epoxy Joint Filler

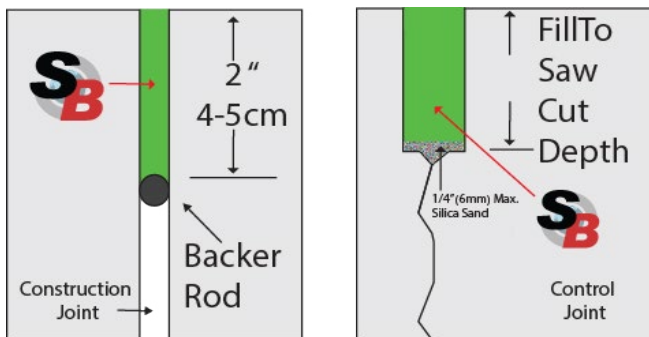
Product Description

SealBoss® 6880 EP QuickFix is a two component, 1:1 ratio, low viscosity, heavy duty, epoxy joint filler designed to protect joints and joint edges in industrial concrete floors from traffic and load related damages and spalling. The product is also suitable for standard floor joint and floor crack repair.

SealBoss® 6880 EP QuickFix joint filler bonds tightly to the sides of concrete joints, prevents contaminant and water penetration, and delivers high wear resistance and durability. The ambient temperature range for the cured product should be from 40°F (10°C) to +120°F (50°C). SealBoss® 6880 EP QuickFix is designed for use on concrete floors. References: 03251 (expansion/contraction joints), 03300 (cast-in-place concrete) and/or 03930 (control joint sealers). Ask your SealBoss® technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 6880 EP QuickFix should be applied to full joint depth in dry and dust-free saw-cut control joints at a depth of 2 in (5 cm), see ACI and PCI guidelines. Very deep shrinkage cracks beyond the saw-cut depth may be sealed with a 1/4" (0.6 cm) layer of clean, dry silica sand prior to applying the product. Note: Use of Backer Rod may de-stabilize the load bearing properties of the product. If reduced load bearing properties are acceptable, Backer Rod can be used in through-slab construction (cold) joints if a minimum of 2 in (5 cm) of depth remains for product. To ensure adequate adhesion, ACI recommends a slab cure of 60-90 days or longer to permit for greater concrete shrinkage/joint opening, lessening the expected incidence of joint filler separation. 28 day cure times should be considered the absolute minimum. Floor temperature and product temperature must be between 60-90°F (16-33°C) during the application for complete cure. Temperatures below 50°F (10°C) will inhibit the cure.



Joint Preparation: Thoroughly remove all dust, debris and moisture from joints to not compromise adhesion. Use a dustless concrete saw with diamond blade. For clean concrete surfaces, primer is not needed. Caution: Thoroughly read SDS and installation instructions prior to opening containers or dispensing.

Mixing: Use a variable speed drill at low RPM and two paint mixing paddles (Jiffy or similar) to pre-mix SealBoss® 6880 EP QuickFix Parts A and B for approx. 3 minutes prior to pouring into pump tank. Do not dilute or alter material.

SealBoss® 6880 EP QuickFix Advantages

- **Class 5-9 Concrete Floors**, applications which receive heavy vehicle traffic, such as fork lifts or steel wheeled carts
- 1:1 Mix Ratio
- Load-Supporting Rigidity
- Spall-Preventing Strength
- Movement-Permitting Flexibility
- 100% Solids Epoxy Formulation
- VOC Free
- ACI, PCA Guidelines Compliant
- USDA/FDA Compliant

JointMaster Pro2 G3i Digital

Recommended heavy duty joint fill machine



Dispensing: Best results are obtained by dispensing through a dual-component dispensing pump such as the **SealBoss® JointMaster Pro 2 G3i Digital** or through a bulk-type caulking gun.

SealBoss® 6880 EP QuickFix should be installed in a two pass method. The first pass should fill the joint to within 1/2" of floor surface. Within 30 to 90 minutes overfill joint slightly with a second pass. Check joints periodically for material loss due to seepage. Allow material to solidify appropriately before shaving or grinding material flush with floor surface. If shaving, a warm ambient temperature may ease the shaving process and ensure a smoother filler profile. Use appropriate respirator mask if heating material. Any overfill may leave a slight stain on concrete depending on surface density. Stains may fade over time.

If shrinkage crack is excessive and needs to be "choked off," it may be sealed with clean, dry silica sand as shown below (contractor's option).

Clean-Up: Spills of unmixed components can be cleaned up with cleaning. Observe all safety warnings. Cured product can be scraped or shaved off floor and tools. Installed and cured SealBoss® 6880 EP QuickFix is basically maintenance free. Should joints open due to concrete shrinkage, fill voids exceeding credit card width (1/32 in) or (0.08 cm) with additional SealBoss® 6880 EP QuickFix.

Limitations

SealBoss® 6880 EP QuickFix is a joint filler formulated for use in industrial concrete floors as specified. The product is not designed for use in true expansion/isolation/working joints, exterior joints, joints exposed to extreme chemical exposure or joints under VCT/seamless floor coverings. The product may discolor if exposed to UV.

SealBoss®

6880 EP QuickFix



Product Data Sheet Industry Standard Epoxy Joint Filler

Technical Data

Mix Ratio by Volume, A:B
Color
Application Thickness
Hardness, Shore A at 70°F (21°C)
Tensile Strength, psi
Tensile Elongation, at 70°F (21°C)
Pot Life, min at 70°F (2°C)
Curing Time, hours at 70°F (21°C)
Solids Content
Shrinkage

1:1
Grey
> 1/8" (3MM)
A80-90 D-2240
1000-1300 D-638
50-70% D-638
15-20
24
100%
Negligible

PACKAGING:

1:1 ratio by volume units:
Shelf Life
Storage Conditions
Disposal

5 / 55 Gallon Kits
2 years in original unopened container.
Store at 50-90°F.
In accordance with all applicable laws and regulations.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations. While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Approximate Coverage Chart

Joint Size (US)	LF/Gal.	Joint Size (Metric)	M/Gal
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1/8" x 2"	75	3 x 50	23
3/16" x 3/4"	135	5 x 19	41
3/16" x 1"	100	5 x 25	30
3/16" x 1 1/4"	85	5 x 31	26
3/16" x 1 1/2"	70	5 x 38	21
3/16" x 1 3/4"	60	5 x 44	18
3/16" x 2"	50	5 x 50	15
1/4" x 1"	80	6 x 25	24
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1/4" x 1 1/2"	50	6 x 44	14
1/4" x 1 3/4"	45	6 x 50	12
1/4" x 2"	40	9 x 25	15

Fast Cure & Low Temperature Requirements

For fast cure and low temperature requirements please refer to the **SealBoss® 6500 QuickFix Polyurea Joint Filler System**.

Floor Spall Repair

For fast cure spall repair refer to the **SealBoss® 6060 QuickFix Spall Repair System**.



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Revised 201805 USA

SealBoss®

6500 HM QuickFix



Product Data Sheet Hand Mix Polyurea Filler

Product Description

SealBoss® 6500 HM QuickFix is a technologically advanced, two component, 7:1 ratio, 100% solids, flexible polyurea elastomer product with a retarded pot life.

SealBoss® 6500 HM QuickFix is a high quality joint and crack filler for concrete substrates in applications that are time critical. It works well in adverse temperature conditions as the material cures in ambient temperatures from -28°C (-20°F) to 54°C (130°F). The tack free time is 5 to over 15 minutes depending on temperature. This permits to reopen the jobsite to vehicle and foot traffic just one hour after the application. Exposure to sunlight (UV) may cause discoloration, however the physical properties are essentially unaffected. Ask your SealBoss technician for details. The product is for professional use.

Installation Guidelines

Clean the area of debris and contaminants, such as oils, loose materials, dirt, rubber etc., to allow for good adhesion of the product. Expose clean rough concrete for best results. If using a saw to cut concrete and clean the crack, remove all the dust from the cut out area. Make sure the area is dry. All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture.

For bulk mixing, pre-mix each component thoroughly. Proportion parts at 7:1 ratio by volume of Component "A" and Component "B" preferably by mixing the B side into the A side container. Mix only the quantity that can be used within the pot life of the product. The material can be mixed with sand or quartz sand and other approved fillers in a ratio of up to 30%. Use of filled product will prolong the reaction time. Do not add solvents or thinners. They will prevent proper cure. Not for sealing cracks and joints under hydrostatic pressure or with extreme movement. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days, depending on curing and drying conditions prior to applications.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and

Extended Pot Life Joint Filler & Joint Repair System

SealBoss® 6500 HM QuickFix Applications

- To fill cracks, damaged control joints, construction joints on horizontal concrete
- For industrial floor applications which receive heavy vehicle traffic, such as fork lifts or steel wheeled carts
- Highly flexible, allowing slab movement, yet strong enough to protect the vertical edges of concrete from spalling under heavy loading
- Interior and exterior use, discoloration in prolonged UV exposure

SealBoss® 6500 HM QuickFix Advantages

- 100% Solids and VOC Free
- Remains Flexible, Even in Cold Temperatures
- Return Project to Service in 60 Minutes
- Cures From -0-54°C / 32-130°F
- Reduced Moisture Sensitivity
- Essentially Odorless
- Resistant to Petrochemicals

Typical Application Environments

- Industrial Facilities
- Warehouse Floors
- Manufacturing Facilities
- Pulp and Paper Mills
- Bottling and Canning Facilities
- Airports
- Water and Waste Water Treatment
- Cold Storage Facilities
- Food Processing Facilities

animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

SealBoss®

6500 HM QuickFix



Product Data Sheet Hand Mix Polyurea Filler

Technical Data

PHYSICAL PROPERTIES:

Color (A+B)

Viscosity (mixed)

Mix Ratio (by volume)

Pot Life 0.1 kg at 25°C / 77°F

Tack Free, Thin Film at 25°C / 77°F

Initial Cure at 25°C / 77°F

Final Cure at 25°C / 77°F

% of Elongation

Service Movement

Tensile Strength, psi

Bond Strength, fully cured clean concrete, psi

Tear Strength, pli, Die C

Shore "A" Hardness

Resistance to Chemicals

Charcoal Grey,

Black, or other

Self Leveling

7:1

8-12 min

40-50 min

120 min

5 days

600

ASTM D-412

± 20%

>2100

ASTM D-412

400

ASTM C-882

>450

ASTM D-624

80-85A

ASTM D-2240

Resistant to Most Organic Solvents,

Mild Acids, Alkali and

Micro Organisms

PACKAGING:

Units

Shelf Life:

Storage Conditions:

Disposal:

1 gal kit, 0.825 gal A / 0.172 gal B, 7:1 ratio by volume

6 months in original unopened container

Store at 55-95°F

In accordance with all applicable laws and regulations

Empty containers must be drip free

Chemical Resistance:

Test Procedure; ASTM D-1308 at 72°F

R=Recommend

RC=Recommend Conditional, some swelling or discoloration

N=Not Recommend

1=Some discoloration only

Chemical Result

Acetic Acid 10 % R

Acetone RC

Battery Acid (Sulfuric Acid) RC

Brake fluidR

Chlorine (2,000ppm in H2O) R

Citric Acid R

Gasoline R

Hydraulic Oil R-1

Methanol (5%) Gasoline RC

Motor Oil R-1

Toluene RC

Vinegar R

Water R

Xylene R



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Revised 201705

QUICKFIX FLOOR REPAIR & COATINGS





SURFACE PREPARATION

Plywood or concrete substrates must be free of all contamination that may impair adequate bonding. Substrates must be sloped a minimum of 4" per foot for drainage, and must be primed with the appropriate primer before application of the membrane and surface protection materials.

Concrete: The surface of concrete substrates must be clean and free of standing water. All holes, joints and cracks must be pointed flush with portland cement mortar and all high spots cut or ground off to provide a smooth, even surface. Before the material is applied, the substrate must be clean and free of dust or foreign material. Paint, grease and oil must be removed either by grinding or sandblasting and concrete surfaces must be shotblasted or water blasted. Control joints should be cut per standard concrete construction practices and caulked. Concrete must exhibit 3000-psi minimum. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

New and Old Concrete:

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shotblasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, SealBoss FlexCoat or a mixture of PU Primer and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

Concrete Surface Preparation Reference:

ASTM D4258 - Standard practice for cleaning concrete

ASTM D4259 - Standard practice for abrading concrete

ASTM D4260 - Standard practice for etching concrete

ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete

ICRI 03732 - Concrete surface preparation

Neat cement sacking is not an acceptable surface preparation for coatings.

Plywood: Plywood should be new or cleaned and sanded. Plywood must be exterior grade plywood, having either tongue-and-groove edges and ends perpendicular to supports. The plywood will be 19/32" or 21/32" thick. Plywood should be installed with a maximum of 1/4" space between the plywood sheets and laid over joists on 16" centers. Plywood sheets must be screwed down securely or nailed with coated annular ring or screw shank nails. If the underside of the joists is covered, the floor/ceiling cavity must be vented to aid in drying and to minimize moisture buildup in the deck structure. Damaged panels will be repaired/replaced before coating. Old plywood must be cleaned and sanded before priming with PU Primer at a rate of 3 gallon per 100 square feet prior to coating application. The only acceptable grade of plywood is APA rated, exterior grade with exterior glue or better. The appearance and physical characteristics of the plywood and grade should be considered.

Note: The above plywood grade is called out in compliance with the American Plywood Association's Standard. Plywood grading which does not reference APA markings may not be a suitable grade. No liability is assumed by SealBoss Corp. for defects in the substrate.

PROTECTION OF WORK

While work is underway and for 72 hours thereafter, traffic from other trades should be stopped. Material should be stored on plywood or non-asphaltic insulation board. Adjacent surfaces which are not to be coated, such as walls, thresholds, fascias, etc., should be carefully masked before priming and coating. Mask vertical surfaces at the line detailed in the architectural drawings or, if none is shown, mask 4" or more up from the deck. When coatings are applied by spray, caution is necessary, particularly during windy weather, to prevent overspray damage.

PRIMING

SealBoss Corp. elastomeric coatings frequently require a primer. The preferred primer varies with the substrate as described below. Guide specifications state primer requirements. Product data sheets contain application instructions.

CONCRETE

Sealing Concrete: Most concrete has surface porosity, although it is seldom visible. This porosity develops at the time of placement from various causes including water content, drying rate, aggregate type and troweling action. When elastomeric coatings are placed over concrete, there is a risk that blisters will form from outgassing through surface pores. This risk is minimized by the use of a primer system. PU Primer should be applied on all concrete and dense aggregate structural concrete. Prime entire deck surface and all vertical or sloping surfaces of curbs, cants, parapets, etc., which are to receive coatings, with one coat of PU Primer applied by roller or spray. The coverage rate is about 3 gallons per 100 square feet. Allow polyurethane primers to dry for one hour or more before applying the base coat. Allow epoxy primers to dry until tack free before applying the base coat. Note: Surface temperature is more important than air temperature. The normal minimum surface temperature for application is 50°F (10°C).



WOOD

SealBoss® Corp. polyurethane coatings are self-priming when applied to new wood construction (primer is not necessary). For optimum adhesion on existing plywood, it is advisable to use PU Primer.

STEEL

Wire brush or sand steel surfaces until the metal is bright. Solvent wipe after cleaning. Apply PU Primer at the rate of 3 gallon per 100 square feet. Primer should be permitted to dry tack free before applying subsequent coats. This ensures proper adhesion under most conditions. Never apply PU Primer to wet or moist surfaces

RECOATING SURFACES

Decks to be re-coated should be thoroughly cleaned. When the area intended for coating has completely dried and is free of dirt, dust, oil and other contaminants, apply PU Primer. All coated surfaces require special attention. A test patch should be applied to check for bonding. If adhesion is good, the surface is smooth, and no lifting occurs, apply coating as specified. If adhesion to substrate is poor, and lifting does occur, remove old coating before new coatings are applied.

EXPANSION JOINTS

SEALING OF CRACKS, CONSTRUCTION JOINTS, SUBSTRATE CHANGES, AND FLASHINGS

This step, which follows priming and precedes coating, is the most critical stage in the application of SealBoss® Corp. coatings. Success or failure in application of this system depends largely on how they are treated. Working cracks in concrete are joints or cracks which have moved or will move appreciably, in any or all of the three dimensions, due to thermal changes or vibration. A crack which extends at each end to the edge of the surface, to a building expansion joint or to another working crack may be a working crack. A crack with minute broken fragments along the edge is probably a working crack.

CONCRETE

To prepare expansion joints, substrate changes, cracks and flashings, apply backer rod if necessary then a polyurethane* sealant and reinforcement tape, embedded into the sealant, with a stripe coat centered over the crack. The crack must be fully sealed. Any cracks over 1/4" shall be routed to 4" x 4" prior to application of sealant and reinforcing tape.

SUBSTRATE CHANGES

Use caulking and reinforcement tape, with a stripe coat centered over the crack, backer rod and polyurethane* sealant as required at changes in substrate material. Reinforcement tape must be embedded into the sealant. It is also required when the substrate changes plane in a valley, or if a crack exists at other changes in plane.

JOINTS IN PLYWOOD

When a joint must be invisible at close range, filling voids and nail heads is necessary. Any wood-adhering, non-shrinking, firm-setting, non-staining material is satisfactory. An epoxy/100 mesh sand grout may also be used. To prepare plywood joints, flashings and substrate changes, apply a polyurethane* sealant and reinforcement tape embedded into the sealant with a stripe coat centered over supported joints on the same plane, supported joints at changes in plane, or unsupported joints. Defects in taping and flashing must be corrected prior to proceeding with base coats.

COATING APPLICATION

SealBoss Corp. materials are one or more components, liquid applied polyurethanes. When properly combined and applied they cure to form tough, high strength elastomeric membranes. All specified quantities are minimums and are on an undiluted basis. No allowances have been made for material waste, uneven surfaces, spillage, material applied thicker than specified, or material left in containers or equipment.

MIXING

Important: All products must be mixed according to the product data sheets prior to use. Mix two component materials individually before combining. Stir all materials thoroughly before use. Examine both Part- A and Part-B for graininess. Partial containers should not be stored longer than one or two days as exposure to atmospheric moisture induces cure. Keep containers covered whenever possible. For best results, power mix thoroughly for five minutes, scraping sides of container. Best results are obtained by pouring Part-B into Part-A while mixing. Polyethylene or polypropylene mixing containers are recommended, as they can be reused. Cured material is easily stripped out cleanly the following day. If the product requires a catalyst, the best results will be obtained by pouring the catalyst into the product while mixing. Mix only as much material as can be used within the specified pot life.

COLD WEATHER APPLICATION

During cold weather, special precautions must be taken in applying polyurethanes. These coatings should not be applied to surfaces 50°F (10°C) or colder. Store materials above 65°F (18°F), or warm to above 65°F (18°C) prior to use. If graininess is observed, warm the entire contents of the can to 60°F (16°C), and mix until smooth. Lower temperature and humidity may extend curing time.

HOT WEATHER APPLICATION

Product data on pot life and cure rate are provided for materials at 75°F (24°C). At temperatures above 75°F (24°C) pot life and cure time will decrease proportionately as temperature and humidity increase. Store materials out of direct sun and mix only the amount that can be applied within the pot life. Refer to product data sheets for further information.



APPLICATION OF BASECOAT

All specified quantities are on an undiluted basis. Better films are usually produced with less entrapped air when the rate of application is no more than 12 gallons per 100 square feet. However, the recommended rate varies by product and specification. Apply SealBoss Corp. polyurethane in a uniform thickness without skips or holidays. Basecoats can be squeegeed or rolled, depending on job type and size. Allow each coat to dry until tack free and sufficiently cured for foot traffic before applying additional polyurethane coating. A period less than one hour to overnight may be required depending on drying conditions and the particular product used. For a more slip-resistant surface, uniformly broadcast a washed, dry, rounded 16 to 90 mesh silica sand into the wet topcoat at a rate of 20 lbs/100 sq. ft. or as required to achieve a slip-resistant finish. Slip resistance will vary depending on the coating thickness. Extend each coat over curbs and up vertical surfaces of pads, curbs, walls and parapets. The top of curbs and equipment pads shall be similarly coated. In the case of walls and parapets, extend coating to the point where counter flashings enter the masonry. Where no counter flashing is specified, hold the base coats just short of the termination line at the edge of the deck to avoid seeping under masking tape or spilling on adjacent unprotected surfaces. If the entire job cannot be carried through to completion without interruption, the interruption should occur after the first coat. This will provide protection for the system. Coated surfaces must be clean and dry before work resumes.

APPLICATION OF TOPCOAT

Inspect the surface for damage prior to the application of topcoat. Any surface damage must be repaired by replacing base coat so that a continuous membrane in substantially uniform thickness covers the entire surface prior to topcoat application. While careful color matching procedures are used, different batches of polyurethane may vary slightly in hue. This variation will be too slight to be perceptible if changes are made at natural breaks in the surface. Intermixing of batches may be necessary or desirable to ensure consistency in topcoat color.

CAUTION

Excessively heavy applications of polyurethane can cause pigment separation during drying, resulting in a blotched color. Uniform application at the specified coverage rate is important to provide proper results. Remove masking tape at edges of coating area as soon as the final coat of polyurethane is applied. By removing the tape while the coating is wet, it will not be necessary to cut it off and will avoid damage to the edge of the coating. Any seepage under the tape on rough surfaces can be wiped off with thinner while wet.

The following conditions must not be coated with SealBoss® Corp. deck coating systems: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite or lightweight concrete, asphalt surfaces or asphalt overlays. Floor hardeners may adversely affect the adhesion of the coating. SealBoss® Corp. coating systems should not be subjected to rising water tables or hydrostatic pressure on slab-on grade applications. If there is a question regarding a substrate, please contact a SealBoss® Corp. representative. Approved sealants are: SealBoss® 6500 QuickFix, SealBoss® 6500 HM QuickFix, and SealBoss® FlexCoat.



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Revised 201705



Fast Cure Polyurethane Coating With Outstanding Elongation Properties

SealBoss® FlexCoat Features

- Solvent Free, Non-Gassing
- Apply at ANY Thickness
- Excellent Thermal Stability & Chemical Resistance
- Low Temperature Flexibility
- Interior / Exterior Applications

Typical Application Environments

- Vehicular Traffic Areas
- Sundecks, Balconies
- Stalls, Wash Racks, Kennel Runs
- Pedestrian Traffic Surfaces
- Industrial Floors, Mechanical Rooms
- Flexcast: Floor Joints and Cracks

Product Description

Type of Material

SealBoss® FlexCoat is a high tech, polyurethane coating combining excellent strength with outstanding flexibility. The solvent free formula product can be mixed with fillers for extra thickness and to lower the cost per unit. The material is spread to achieve a self-leveling and fast curing waterproofing base membrane or to fill joints, voids and cracks. Selected rubber texture granules and/or sand may be broadcast on the not yet completely cured surface. A final seal coat of moisture-cured aliphatic or aromatic urethane color coat is applied.

Range of Application

SealBoss® FlexCoat is designed for rapidly applied and fast cure installations over prepared surfaces. The product can be used as a specialty membrane but also offers significant void and joint filling capabilities with extreme elongation properties. The unique acceptance of the product to additives such as sand and quartz fillers combined with fast cure features allow for installations of any desired thickness under a wide range of weather conditions. SealBoss® FlexCoat can be used for seamless, flexible, durable, slip resistant, decorative, protective and highly waterproof membranes on exterior pedestrian traffic surfaces such as balconies, walkways, patios, stairways, sidewalks, etc.; interior surfaces such as mechanical room floors, work areas, shower pans and stalls, display floors, etc.; on boat and ship decks made of metal, wood and fiberglass; vehicular traffic areas such as rooftop parking decks and ramps made of concrete or asphalt, etc.; exterior wooden and concrete sun deck areas such as pool surrounds, ski lodge sun-decks, rooftop play areas, etc.; equestrian and animal habitats such as stalls, wash racks, kennel runs hot-walkers, etc.; athletic surfaces etc.

SealBoss® FlexCoat can be used to seal, fill and cast into cracks, voids, joints and control joints. It can be applied as a mortar to level out imperfections in surfaces at various thicknesses.

Processing

General Information

SealBoss® FlexCoat is a two-component, liquid applied, polyurethane elastomeric waterproofing base membrane. SealBoss® FlexCoat must not be diluted under any circumstances. Surfaces to be coated must be dry, clean, free of foreign matter, and generally should be primed with our

PU or epoxy primer.

Shelf Life: Six months at 75°F (24°C) in sealed, unopened containers.

Packaging: SealBoss® FlexCoat is available in 4 gallon A and 1 gallon B containers. The A container is of 5 gal volume to accept the B side for mixing purposes.

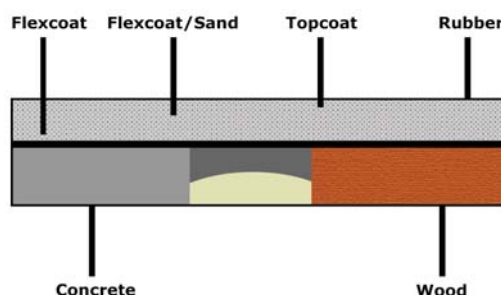
Primers are available in 1 or 5 gallon containers. Rubber granules are available in 50 pound bags.

Preparation of Substrates

All Surfaces must meet all applicable building and safety codes in the prescribed city, county or state. Substrate must be structurally sound and sloped for proper drainage. We assume no liability for substrate defects!

Successful bonding requires structurally sound, strong, and clean substrates. The substrate must be cleaned to ensure that it is free of all oils, "laitance", greases and other contaminations. Adhesives, sealing membranes, etc., should not be applied until the surface is dry.

SealBoss® FlexCoat permits more movement with moving cracks and joints.



Application of Membrane

Before application, mix SealBoss® FlexCoat thoroughly by hand or using a mechanical mixer (Jiffy Mixer) at slow speeds at the correct ratio of 4:1 A:B parts by volume. A filler material such as sand, quartz sand or rubber granules may be used. This rapid setting liquid is spread at any desired thickness onto the prepared and primed surface.

For best results apply with a squeegee or notched trowel to spread material on properly cleaned, prepared, graded, flashed, and primed dry substrates. Application of the SealBoss® FlexCoat system should be done in one complete step to create a smooth uniform self-leveling surface without cold joints, lines or streaks.

If desired, broadcast rubber granules immediately into the newly created wet membrane or broadcast a #1 or #2 graded washed dry sand (20 mesh) after the membrane has set long enough so the sand does not sink, covering it completely to provide a slip resistant surface. Allow to cure 2 to 4 hours or until stiff enough to support weight before collecting surplus broadcasting material and applying the color coat, tile or other surface coating. Note: Curing time depends on humidity and temperature. Low temperature and low humidity retards the curing time.

Equipment Cleanup: Equipment should be cleaned with



Fast Cure Polyurethane Coating With Outstanding Elongation Properties

environmentally-safe solvent as permitted under local regulations immediately after use.

Rubber Granules

While the surface is still wet and receptive, an excess of rubber texture granules or sand may be broadcast onto and into the surface to create the desired slip-resistant surface texture. After the membrane has cured to accept foot traffic, all granules not bonded shall be removed and the surface is top coated.

Rubber granules are selected to add to the base membrane integrity and improve surface texture characteristics to achieve nonskid characteristics. Rubber granules range in size from 40 mesh through 3/16 inch diameter. They are sometimes stringy and come in various degrees of hardness and flexibility.

Primers and TopCoats

Solvent-free and odorless PU primer is recommended to assure a positive and durable bond to all properly prepared substrates. Epoxy based primer may add a better adhesion on some more critical surfaces such as metal.

SealBoss® FlexCoat is typically finished with a topcoat or color coat. A variety of aliphatic and aromatic single-component, moisture-cured urethane rubber color coats are available for various requirements. They are of high solids and flexible, with excellent resistance to abrasion. Standard color coats are available. Special colors can be formulated subject to quantity and additional tinting costs.

Caution

It is mandatory to observe all local and federal laws and regulations when applying coating products. Stringend V.O.C. standards have been imposed on State levels as well as County levels. Be certain to get the correct product and to be in compliance.

Maintenance

Precautions

Polyurethanes and solvents may cause health problems if used without adequate ventilation or fresh air respiration, so precautions must be taken to protect all occupants on the job site during installation. The uncured components of SealBoss® FlexCoat can cause irritation to the eyes, skin, mucous membranes, and is harmful if swallowed. When handling avoid contact with eyes and skin. In case of contact, immediately wash off with plenty of water for at least fifteen minutes. For eyes, obtain medical attention. Always wash hands before eating. Obtain immediate medical attention in case of ingestion. SealBoss® FlexCoat contains isocyanates and may cause allergic respiratory reactions. Individuals with chronic respiratory problems or prior respiratory reactions to such materials should not be exposed to vapors. When applying SealBoss® FlexCoat avoid breathing harmful vapors. Fresh air-supplied standard painter's hood or full face respirator may be necessary to be worn by all personnel in confined areas where SealBoss® FlexCoat, primers and top coats are being applied until all vapors have been exhausted. Please comply with all OSHA regulations. In case of extreme exposure or adverse reaction, remove affected personnel to fresh air immediately and obtain medical help. For additional health and safety information consult the Material Safety Data Sheet.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove.

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

In case of surface damage, SealBoss® FlexCoat can be repaired by first abrading the surface six inches 6 in (15 cm) around the damaged area. The surface should then be cleaned with an environmentally-safe solvent (as permitted under local regulations) to ensure that the surface is free of all dust particles, oils, greases, or any other foreign matter that will impair bonding. Allow the area to completely dry before priming the surface with primer and reapplying.

Health and Safety

Protect your health! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. Always use safety gear in compliance with OSHA and all applicable local and job-site regulations while working with products. Wear appropriate safety goggles, gloves and safety clothing. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals!

For additional information, please refer to:

SealBoss® FlexCoat Tips



Technical Data

		FlexCoat
Weight	ASTM E-201	10.5 lb/gal
Solid Content	By Volume	95%
Plasticizers, High Boiling		<5%
Hardness	ASTM D-2240, Shore A	60-68
Elongation	ASTM D-412	1000%
Tensile Strength, psi	ASTM D-412	1500
Adhesive Strength, psi (peel on primed concrete)	ASTM D-903	175
Tear Resistance, psi	ASTM D-624	230
Split Tear, psi	ASTM D-470	60
Pot Life (min @ 75°F, 50% RH)		15
Min. Application Temperature		35°F
Max. Concrete Moisture Content		<5%
Min. Concrete Cure Time Prior To Application		28 Days

NOTE: Materials filled with aggregate show higher Shore A readings

Chemical Resistance

14 day immersion at 77°F of 40 mil Flexcoat Film and 20 mil Topcoat film

	Flexcoat	Topcoat
Salt Water	No effect	No effect
Distilled Water	No effect	No effect
5% Detergent Solution	No effect	No effect
Chlorinated Pool Water	No effect	No effect
Antifreeze	No effect	No effect
Motor Oil	Stain	Slight stain
Hydraulic Brake Fluid	Slight bleaching	Slight bleaching
Gasoline	Slight swelling	Slight stain

YIELD (approximate coverage at suggested thickness)

Flexcoat	1.0 mil system	1600 sq ft per 1 gal	
	40.0 mil system	40 sq ft per 1 gal	
	40.0 mil system	200 sq ft per 5 gal	(1 unit = 4 gal A + 1 gal B)
Primer	thinly applied	300 sq ft per 1 gal	
		1500 sq ft per 5 gal	
Topcoat	applied to cover	100 sq ft per 1 gal	
		500 sq ft per 5 gal	



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Revised 201705



FlexCoat
Bellagio Hotel, Las Vegas
Courtesy of Lynco

There are four features that make **SealBoss® FlexCoat** unique:

1. Fast chemical cure without external moisture present
2. Various fillers can be added at a high rate to increase thickness, hardness and to lower material cost
3. Apply at any thickness, use as a mortar
4. Super Flexible and Durable

These features of the SealBoss® FlexCoat system result in simplicity, versatility and economy.

SealBoss® FlexCoat membranes can be used in a wide variety of applications ranging from our normal walking deck systems, which use rubber granules for slip resistant surfaces to bare membrane under structures to waterproof and protect the concrete and rebar. SealBoss® FlexCoat membranes provide waterproof surfaces outdoors, rustproof & flexible decking systems on ships and thick seamless Mono-Mat Systems that provide sanitary cushioned flooring for zoo and veterinary uses. Contractors may use cementitious "knock-down" splatter coats and decorative-pattern acrylic systems on top of FlexCoat membranes when reliable waterproofing is needed underneath. A sand surface may be applied on top of the membrane for bonding purposes to the thin set mastic and tile.

How to...

When SealBoss® FlexCoat is mixed, you have about 15 minutes to apply the mixed material while it flows freely and self levels. On large jobs that will require multiple mixing cycles. The mixer person must time the batches to keep a wet edge and not get ahead or behind the applicators. The rule of thumb when applying SealBoss® FlexCoat is 'The quicker the better!' Don't hesitate. You can detail before and after the membrane is applied. The quicker it goes down, the better the material will lay out and smoothly self-level. At

70°F the cure time will be about 4 to 5 hours.

Adding filler

SealBoss® FlexCoat can be thickened with rubber granules or sand in order to use it in some really unique and very cost effective applications.

A sand and SealBoss® FlexCoat mixture of up to 1 to 1 by volume is recommended for filling surface spalling and general patching. By adding 2 or 3 units of sand, with corresponding per unit cost savings, you can mix a stiff enough batch to form a sloping angle. If the deck flexes, the Sand Slurry will not crack or delaminate under the membrane like a cementitious or epoxy material would. This works well on plywood and even twisting ship decks. As a joint system, SealBoss® FlexCoat is used in the expansion joint before applying the membrane. The joint may still be visible as it expands and contracts, but the edge wear and edge leakage are eliminated. Rubber granules added to SealBoss® FlexCoat create a more flexible system than sand. The use of rubber granules is superior over sand in many high foot-traffic applications such as ski resort decks. The regular sand textures do not hold up to ski boot wear & tear, whereas rubber texture will last longer because it will grip, flex and snap back when the hard ski boots strike the surface. Also the rubber texture is also much quieter to walk on. Rubber granules also speed up the application process because they can be broadcast onto the wet membrane and not tend to sink into it as sand will. Even if some rubber sinks in, it is rubber into rubber, and will not break down and cause failure as sand in the membrane can. Added with filler the product can be used as a quick set caulking or sloping material. Since SealBoss® FlexCoat is an internally curing material it can be covered with the next application step as soon as cured firm enough to accept the next coating. You can cover up walls, patch cracks, tape joints, create slopes to drain and then immediately apply the membrane application. The materials will bond to each other and cure out as one flexible and monolithic unit. This really



speeds up total completion time. Remember, time is money!

Priming

Apply the primer uniformly, but sparingly, with no puddles and allow to cure until slightly tacky. Hint: because the primer does not sink into metal flashing like it will with plywood and concrete, it will take longer for it to become tacky. Metal is harder to prime because the primer does not penetrate, so prepping the metal areas is very important. Most deck problems occur at the flashing details. Rough-sand flashing metal for optimum bond.

Prepping And Detailing A Deck

Level and fill all nail & screw depressions and detail smooth wood to metal transitions with tape and a thickened mixture of SealBoss® FlexCoat is used in the expansion joint before applying the membrane. Mix thick or thin as needed for patching or coving. Use the a SealBoss® FlexCoat Sand Slurry to fill large voids, sloping to drain or ramping up several inches for wheelchair access to door sills. This makes a flexible sloping and filling material that will not crack with substrate movement. Shape with a wood float and finish with a steel trowel lubricated with approved solvent.

Broadcasting Texture Granules

The rule of thumb is that the more slip resistant a surface, the harder it is to clean. Ski resorts usually want very aggressive surfaces and home owners want surfaces that are easier to keep clean. On pitching fishing boat decks coarse aluminum oxide may be back rolled into the color coats for maximum slip resistance. Many different surface treatment options can be used on SealBoss® FlexCoat Membranes. A waterproof membrane under tile can be created. Cementitious 'Splatter Coats' and cementitious design pattern systems are sometimes used on top of the membranes. Another interesting texture option finding a very strong acceptance in the veterinary Mono-Mat market is using rubber texture granules mechanically sanding off their sharp tips. This leaves a truncated cone effect that provides a surface which is much easier to clean and maintain in animal habitats. It is actually "mop-able". It looks like a fine rubber "knock-down" finish and provides a nice random-design surface that will stand up to much harder usage than a smooth membrane with only a color coat finish. It is also easy on bare feet, such as for an above-grade swimming pool surround on a rooftop which must be waterproofed. The method is simple. The membrane and rubber granule system is applied as usual. One color coat is applied and allowed to dry. Then the rubber granules can be sanded down with a belt sander with a very coarse grit sanding belt, or by hand in corners and around details. You cannot sand the rubber texture granules until they are

set in place with a color coat application. They are just too flexible to sand without the colorcoat. Then the second color coat is applied for the final surface coat. When the rubber granule surface is specified, wait until the membrane starts to set-up and then broadcast to excess. Save the recovered granules for reuse. A 55 lb bag of rubber may broadcast about 250 sq. ft. to excess. A recovery of about 1/3 of the rubber is about normal.

SealBoss® FlexCoat Color Coats

Color coats are moisture cured. Never add water. To assure color uniformity, thoroughly mix the product prior to use. Apply with a paint roller using "cross-hatched" strokes to achieve a well bonded and even coat. Apply at the specified spread rate.



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Revised 201705

SealBoss®

6900 Spray Coat QuickFix



Product Data Sheet

Two Component Modified Polyurea Coating System Flexible Elastomeric Polyurea Coating

Product Description

SealBoss® 6900 Spray Coat QuickFix is a fast set, rapid curing, 100% solids, flexible, aromatic, two component spray polyurea that can be applied to suitably prepared concrete and metal surfaces. Its extremely fast gel time makes it suitable for applications down to -20°F. It may be applied in single or multiple applications without appreciable sagging and is relatively insensitive to moisture and temperature allowing application in most temperatures.

Colors

Neutral. Custom colors are available upon request. Due to its aromatic composition, SealBoss® 6900 Spray Coat QuickFix will tend to yellow or darken in color and will become flat after exposure to UV light. SealBoss® 6900 Spray Coat QuickFix may be topcoated with an aliphatic polyurethane coating for a colorfast finish.

Packaging

10 gallon kit: One 5 gallon pail of Part-A and one 5 gallon pail of Part-B. 100 gallon kit: One 50 gallon drum of Part-A and one 50 gallon drum of Part-B.

Coverage

SealBoss® 6900 Spray Coat QuickFix may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

Surface Preparation

Surface must be properly prepared. Concrete surfaces prepared according to NACE standard RP0892-92. Steel surfaces must be a "near white metal" blast to SSPC-SP-10 with a 4 mil profile. All surfaces must be free from dust, rust, moisture and other oils and contaminants. Concrete surfaces must be primed with appropriate SealBoss® primer to promote adhesion. Holding tanks must be agitated and maintained at a temperature of 85°F. Avoid moisture contamination of material. Refer to general guidelines for complete information.

Mixing

SealBoss® 6900 Spray Coat QuickFix may not be diluted under any circumstances. Use appropriate solvent for solvent purge line and flushing of equipment and if spraying stops for periods exceeding the pot life of the material. Thoroughly mix SealBoss® 6900 Spray Coat QuickFix Part-B Base material with air driven power equipment until a homogenous mixture and color is obtained.

Application

Both Part-A and Part-B materials should be preconditioned at 75-80°F before application. SealBoss® 6900 Spray Coat QuickFix should be applied using a plural component, heated, high pressure 1:1 spray equipment. The product may be applied at any ambient temperature. However, the equipment temperature is important. Both Part-A and Part-B materials should be sprayed at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times.

SealBoss® 6900 Spray Coat QuickFix Features

- Excellent Thermal Stability
- Zero VOC
- No Toxic Vapors Odorless
- Meets USDA Criteria
- 100% Solids
- Seamless
- Low Permeance Rate
- Low Temperature Flexibility
- Non-Reactive
- Good Chemical Resistance

Typical Application Environments

- Airports
- Refineries
- Cold Storage
- Power Plants
- Fertilizer Plants
- Mining Facilities
- Warehouse Floors
- Sec. Containment
- Structural Steel
- Landfill Containment
- Parking Garage Decks
- Food Processing Plants
- Walkways and Balconies
- Water and Waste Water Treatment
- Industrial and Manufacturing Facilities Marine
- Environments Paper and Pulp Mill

Limitations

Do not open until ready to use.

Storage

SealBoss® 6900 Spray Coat QuickFix has a shelf life of ten (10) months from date of manufacture in factory sealed containers. Part-A and Part-B drums must be stored above 60°F. Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Part-A and Part-B drums regularly.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Wear appropriate safety goggles, gloves and safety clothing at all times. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

SealBoss®

6900 Spray Coat QuickFix



Product Data Sheet

Two Component Modified Polyurea Coating System Flexible Elastomeric Polyurea Coating

Warning: This product contains Isocyanates and Curative Material. See Technical Data and Warranty & Disclaimer below.

Technical Data

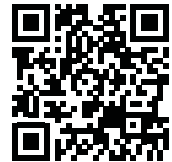
Mix Ratio by Volume	1A:1B
Pot Life	3-5 seconds
Tack Free Time	60-120 seconds
Recoat Time	0-12 hours
Viscosity at 150-160°F (66.5-71°C), Brookfield:	
Part-A	50 ± 20 cps
Part-B	50 ± 20 cps
Density (Side A & B Combined)	8.75 lbs/gal
Flash Point	>200°F
Hardness, ASTM D-2240	85 ± 5 A
Tensile, ASTM 412-C	3000 ± 200 psi
Elongation, ASTM 412-C	650% ± 50%
Tear, ASTM 624-C	450 ± 50 pli
Service Temperature	-40°F to 300°F
Adhesion ASTM D4541	900-1000 psi

(90 micro(m) blast profile steel)

Abrasion

6 mg loss

(Taber Abrasion Method - CS17 Wheel, 1000 cycle, 1000g)



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Revised 201705

SealBoss®

6900M Spray Coat QuickFix



Product Data Sheet

Two Component Modified Polyurea Coating System Flexible Elastomeric Polyurea Coating

Type of Material

SealBoss® 6900M Spray Coat QuickFix aluminum & custom colors is a two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and roof surfaces.

Colors

Aluminum and custom colors upon request dependent upon volume.

Installation Guidelines

Surface Preparation:

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. SealBoss® 6900M Spray Coat QuickFix recognizes the potential for unique substrates from one project to another. The following information is for general reference, and for project-specific questions, contact SealBoss®.

New and Old Concrete:

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shot blasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, use a concrete repair material for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

Concrete Surface Preparation Reference:

ASTM D4258 - Standard practice for cleaning concrete
ASTM D4259 - Standard practice for abrading concrete
ASTM D4260 - Standard practice for etching concrete
ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete
ICRI 03732 - Concrete surface preparation.

Wood:

All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Ever-Thane Fast Flash with sand. Upon full cure of the repair agent, prime the entire surface intended for coating.

Steel (Atmospheric and Immersion Exposure):

Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils. Prime and shoot SealBoss® 6900M Spray Coat QuickFix on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

Aluminum:

Aluminum should be blasted with aluminum oxide or sand, and

SealBoss® 6900M Spray Coat QuickFix Features

- Seamless
- Tough and elastomeric
- Chemical Resistance
- Low Temperature Flexibility
- High Build and Quick Drying
- Slip Resistance
- Abrasion and Impact Resistant
- Low Temperature Flexibility

Typical Application Environments

- Metal Roofs
- Cargo Holds
- Boat Linings
- Cargo Liners
- Wood Substrates
- Waterproof Decking
- Parking Garage Decks
- Walkways and Balconies
- Water and Waste Water Treatment
- Industrial and Manufacturing Facilities
- Marine Environments Paper and Pulp Mill

not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

Brass and Copper:

Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

Galvanized Surfaces:

Clean and degrease any contaminated surfaces before priming. Do not blast galvanized surfaces with an abrasive grit. An adhesion test is recommended prior to starting the project.

Fiberglass Reinforced Plastic:

The gel coat should be lightly blasted or sanded with 80 grit sandpaper and cleaned.

Plastic Foams:

Enhanced adhesion is obtained when the foam is mechanically braded. When coating polystyrene, do not use a solvent-based primer.

Textiles, Canvas, Fabrics:

Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

Stainless Steel:

Stainless steel may be grit blasted and degreased before priming. Some stainless steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.

New and Old Cast Iron:

Blast with a steel grit and degrease before priming. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water soluble contaminants that will keep returning to the surface after the coating system has been applied

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Two Component Modified Polyurea Coating System Flexible Elastomeric Polyurea Coating

and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

All Other Surfaces:

An adhesion test is recommended prior to starting the project.

Mixing:

SealBoss® 6900M Spray Coat QuickFix may not be diluted under any circumstances. Thoroughly mix SealBoss® 6900M Spray Coat QuickFix, Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

Limitations

Do not open until ready to use.

Both Part-A and Part-B containers must be fitted with a desiccant device during use.

Application

Both Side-A and Side-B materials should be preconditioned to 75-80°F before application.

Recommended surface temperature must be at least 5°F above the dew point. SealBoss® 6900M Spray Coat QuickFix should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used.

Both Part-A and Part-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times.

SealBoss® 6900M Spray Coat QuickFix should be sprayed in smooth, multidirectional passes to improve uniform thick-ness and appearance.

Storage & Handling

SealBoss® 6900M Spray Coat QuickFix has a shelf life of six (6) months from date of manufacture, in factory-sealed containers. Part-A and Part-B drums are recommended to be stored above 60°F. Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Part-A and Part-B drums regularly.

Standard for Safety:

ANSI/UL 790, "Tests for Fire Resistance of Roof Covering Materials"


Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove.

SealBoss® R70 Pump Flush is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Wear appropriate safety goggles, gloves and safety clothing at all times. Protect jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

CERTIFICATE OF COMPLIANCE	
Certificate Number	20161222-R38985
Report Reference	R38985-20161221
Issue Date	2016-DECEMBER-22
Issued to:	SEALBOSS CORPORATION 1669 E Wilshire Ave Santa Ana, CA 92705 USA
This is to certify that representative samples of	Roofing Systems SEALBOSS RUST PRIMER, SEALBOSS PU PRIMER, SEALBOSS FLASHSEAL, SEALBOSS TOPCOAT, SEALBOSS PU TOPCOAT, SEALBOSS 6900M WHITE TOPCOAT, SEALBOSS 6900M BRIGHT WHITE TOPCOAT
Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.	
Standard(s) for Safety:	ANSI/UL 790, "Tests for Fire Resistance of Roof Covering Materials"
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information
Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.	
Look for the UL Certification Mark on the product.	
	

SealBoss®

6900M Spray Coat QuickFix



Product Data Sheet

Two Component Modified Polyurea Coating System Flexible Elastomeric Polyurea Coating

Warning: This product contains Isocyanates and Curative Material. See Technical Data and Warranty & Disclaimer below.

Technical Data

Packaging

Pail kit:

Part-A Isocyanate (net 47 lb)

Part-B resin side (net 45 lbs.)

Drum Kit:

Part-A Isocyanate (net 473lbs.)

Part-B resin side (443 lbs.)

Coverage Rate (Theoretical Coverage)

1gal / 1600 sq ft

Color

Aluminum & Custom Colors

Shelf Life

8 months

Mix Ratio, by Volume

1A:1B

Pot Life at 150-160°F

3 -5 seconds

Tack Free Time (150 mils)

20 - 40 seconds

Recoat Time

0 - 12 hours

Viscosity at 150-160°F Part-A Part-B

100 ± 50 cps 100 ± 50 cps

Density (Side A & B Combined)

9.31 lb/gal

Flash Point

>200°F

Hardness (Shore A)

85 ± 5

Tensile

2000 ± 200 psi

Elongation

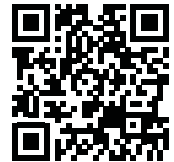
225 ± 50%

Tear, ASTM D-624

250 ± 50 pli

Service Temperature

-20 - 250°F



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Revised 201705



Polyurea Elastomer Chemical Resistance Chart

Test Procedure: ASTM D1308 at 720°F

- R: Recommended (little or no visible damage)
 C: Recommended Conditionally (some swelling, discoloration, cracking - wash down within 1 hour of spillage)
 N: Not Recommended
 1 : Some discoloration only

This data represents 7 days spot test exposure for the Polyurea Elastomer System. The noted chemical; was placed on the surface area of the polyurea and exposed for the prescribed time period. This test represents industry-recognized conditions.

Test Media	Results	Test Media	Results
Acetic Acid 10%	R	Methanol	R
Acetone	C	Methanol (5%) Gasoline	C
Ammonium Hydroxide 10%/20%	R	Methylene Chloride C H 2C12	C
Ammonium Nitrate	R	Mineral spirits	R
Ammonium Phosphate	R	Motor Oil	R-1
Antifreeze (50% Ethylene Glycol)	C	Nitric Acid 20%	N
Battery Acid (Sulfuric Acid)	C	Phosphoric Acid 10%	R
Benzene	C	Phosphoric Acid 50%	N
Brine - saturated (>I 30,000 ppm)	R	Potassium Hydroxide 10%	R
Brake Fluid	R	Potassium Hydroxide 20%	R-1
Chlorine (2,000 ppm in water)	R	Propylene Carbonate	C
Chlorox, 10%	C-1	Sodium Chloride	R
Citric Acid	R	Sodium Hydroxide 5%/10%/25%	R
Copper Chromate Arsenic	R	Sodium Hydroxide 50%	R-1
4% working solution	R	Sodium Hypochlorite (household bleach)	R
	C-1		
Dimethyl Formamide	N	Stearic Acid	R
Gasoline	R	Sulfuric Acid 5%/10%/20%	R
Hexane	R	Sulfuric Acid 50%/98%	N
Hydraulic Oil	R-1	Toluene	C
Hydrochloric Acid	R	1, 1, 1 Trichloroethylene	C
Isopropyl Alcohol	R	Trisodium Phosphate	R
Lactic Acid 10%	R	Vinegar	R
Liquid Notrogne Fertilizer (25-0-0)	R	Water	R
Liquid Urea Fertilizer	R	Xylene	R

Test Procedure: ASTM D-3912 Immersion at 75°F

This data represents 12 month immersion exposure for the Polyurea Elastomer The elas system was applied to a steel panel, having a 2 mil blast profile. The coated panels were then immersed half way into the following chemicals/solution for a period of 12 months, except where noted.

Test Media	Results	Test Media	Results
Acetic Acid 10%	R	Motor Oil	R-1
Acetone 7 days	N	MTBE	R, C
Ammonium Hydroxide 10%/20%	R	MTBE/Gasoline 2%	R, C
Chromic Acid, 10%	N	Nitric Acid 5%	R
Diesel Fuel	R	Phosphoric Acid 10%	R
Ethylene Glycol	R	Sodium Chloride 10% (75°F)	R
Gasoline	R	Sodium Chloride 10% (125°F)	R
Hydraulic Fluid	C	Potassium Hydroxide 10% / 20%	R
Hydrochloric Acid 5%, 10%	R	Sodium Hydroxide 50%	C
Hydrogen Peroxide 5%	R-1	Sodium Hydroxide 1% 50°C 14 days	C
Hydrogen Peroxide 30%	N	Sodium Hypochlorite 10%	R
Isopropyl Alcohol	N	10% Sugar/Water	R
Methanol	N	Sulfuric Acid 5%/10%/3% 50* 14 days	N
Methylethyl Ketone	N	Toluene	N
		Water75°F, 180°F, 14 days	R



SealBoss® HD80 Traffic Features

- High Durability With Adjustable Grades
- 25 to 50 + Dry Mils Multi Layer Application
- Good Weather Resistance
- Solvent Free
- Very Low Odor, CA VOC, AQMD, SCAQMD Compliant

Product Description

Type Of Material

SealBoss® HD80 Traffic is high quality, liquid applied, seamless, moisture cured heavy duty waterproof coating system. The SealBoss® HD80 Traffic system consists of a primer and a premium, solvent free, low odor, aromatic urethane formulation, plus catalyst for decreased cure times.

SealBoss® HD80 Traffic heavy duty elastomeric coating system is designed to withstand vehicular and pedestrian traffic of varying degrees. Increasing durability grades and dry mil thickness are achieved by multiple layer application of product and aggregate. The final product expands and contracts with normal structural movements, protects surfaces from spalling, freeze/thaw damage, and also from chemicals related to automotive traffic. SealBoss® HD80 Traffic is highly resistant to hot and cold weather cycles. Proper installation and maintenance in accordance with all recommendations will result in good longevity of the product.

Color

Standard SealBoss® Grey

Custom colors are available for a minimum order of 250 gallons (1000 liters).

Application

Before the application the surface must be prepared and primed according to specifications. Be advised to use primer compliant to local VOC regulations.

Mix SealBoss® HD80 Traffic using a mechanical mixer (Jiffy Mixer) at slow speeds. Add SealBoss® HD80 Traffic catalyst and continue mixing until a homogeneous mixture and color is obtained. SealBoss® HD80 Traffic may also be mixed by hand but should be agitated for at least 5 minutes. Use caution not to whip too much air into the material as this may result in pinhole blisters and shortened pot life.

It is recommended to use a squeegee, notched trowel or a resin core roller. Do not introduce air bubbles to the product.

SealBoss® HD80 Traffic shall be applied evenly and continuously over the entire surface to ensure a seamless, smooth and level coat with no lines or streaks.

Higher ambient temperature and humidity will reduce cure time. At 70°F (21°C) and 50% relative humidity allow non-catalyzed coating to cure a minimum of 14 to 16 hours before proceeding with subsequent coats. Allow 6 to 10 hours of cure time for catalyst accelerated material.

To obtain design adhesion strength between coats it is important to apply coats preferably within 24 hours of each other. Should have more than 2 days passed after the last application, it is recommended to apply the appropriate SealBoss® Primer before recoating.

SealBoss® HD80 Traffic Applications

- Auto Traffic
- Parking Structures
- Warehouses
- Pedestrian Traffic
- Concrete Decks, Balconies
- Concrete Roofs

Final Cure

At 70°F (21°C) and 50% relative humidity, allow 24 to 36 hours before permitting light pedestrian traffic and at least 72 to 96 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.

The cure time and pot life of SealBoss® HD80 Traffic are affected by temperature and humidity. Higher values accelerate the cure time. Lower temperatures and/or low humidity extend the cure time. To accelerate cure times, SealBoss® HD80 Traffic Catalyst may be added according to recommendations.

Equipment Cleanup

Equipment should be cleaned with environmentally safe cleaners, in accordance with local regulations, immediately after use.

Storage

SealBoss® HD80 Traffic has a shelf life of one year from date of manufacture in original, factory sealed containers.

Limitations

Surfaces must be dry, clean and free of foreign matter. Surface may be slippery when wet. Over time this product may chalk, fade and discolor. Opened containers have a reduced shelf life and must be used as soon as possible. Do not dilute product under any circumstance.

Warning

This product contains Isocyanates.

Precaution

Protect your health! While working with this material, safety goggles, gloves and safety clothing must be worn at all times. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children! Observe container labels, MSDS, and instructions in the Product Catalog before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations.

Application Recommendations

For best results with the SealBoss® HD80 Traffic System consult application recommendations and usage tables. Newly created wet membrane or broadcast a #1 or #2 graded washed dry sand (20 mesh) after the membrane has set long enough so the sand does not sink, covering it completely to provide a slip resistant surface. Allow to cure 2 to 4 hours or until stiff enough to support weight before collecting surplus broadcasting material and applying the color coat, tile or other surface coating. Note: Curing time depends on humidity and temperature. Low temperature and low humidity retards the curing time.



Heavy Duty, Solvent Free, Seamless Multi Layer Polyurethane Coating System

Application Example For High Traffic Area 50 + Dry Mills Membrane Plus Aggregate

Preparation

Prepare surface by cleaning it thoroughly. Bridge or fill any joints, cracks, and flashings as needed. Consider SealBoss® QuickFix Floor Repair Products for the treatment of cracks and spalls. Check area of application to ensure that it conforms to the substrate requirements as stated in the general guidelines.

Coating Primer

Prime all surfaces. Concrete should be primed with SealBoss® Polyurethane Primer at a rate of 1 gallon (mixture of Part-A & Part-B) / 300 sq. ft. (0.15 liters/m²). Apply using a brush or phenolic core roller. This will result in a 3 dry mills (76 microns) thick membrane. Steel flashings should be primed with Epoxy Primer. Use Primer in accordance with your local VOC regulations. Allow primer to become tack free before proceeding to Coating Layer 1.

Coating Layer 1

Apply SealBoss® HD80 Traffic to substrate at a rate of 0.75 gallon/100 sq. ft. (0.31 liters/m²). To decrease cure time, up to one 0.5 pint (125 ml) bottle of SealBoss® Catalyst per 5 gal SealBoss® HD80 Traffic product may be added. For best results use a notched trowel or squeegee. A phenolic core roller may be used but extra care should be taken to prevent air bubbles. Spread mixed SealBoss® HD80 Traffic evenly over the entire surface resulting in a 12 ± 2 dry mills (280 ± 50 microns) thick membrane. Allow SealBoss® HD80 Traffic to cure a minimum of 16 hours, or 6 to 10 hours if catalyzed.

Coating Layer 2

For heavy traffic areas and ramps apply SealBoss® HD80 Traffic at a rate of 1 gallon/100 sq. ft. (0.40 liters/m²). To decrease cure time, up to one 0.5 pint (125 ml) bottle of SealBoss® Catalyst per 5 gal SealBoss® HD80 Traffic product may be added. Broadcast washed, dry, rounded sand, 20 mesh (0.05 in.; 1.2 mm), with 6.5 + Moh's minimum hardness into the wet SealBoss® HD80 Traffic at the rate of 10 lbs/100 sq. ft.

Examples:

Usage Table Heavy Duty Vehicular Traffic 50+ Dry Mills Coating Steps

Primer	1 gal / 300 sq ft	3-5 dry mills (Primer)	SealBoss® Primer Pu / Ep
Coating Layer 1	.75 gal / 100 sq ft	12 ± 2 dry mills	HD80 Traffic / Catalyst
Coating Layer 2	1 gal / 100 sq ft	16 ± 2 dry mills	HD80 Traffic / Catalyst + Aggregate
Coating Layer 3	.75 gal / 100 sq ft	12 ± 2 dry mills	HD80 Traffic / Catalyst + Aggregate
Coating Layer 4	1 gal / 100 sq ft	16 ± 2 dry mills	HD80 Traffic / Catalyst
		50 + dry mills total	(excluding aggregate)

Usage Table Heavy Pedestrian / Standard Vehicular 42 Dry Mills Coating Steps

Primer	1 gal / 300 sq ft	3-5 dry mills (Primer)	SealBoss® Primer Pu / Ep
Coating Layer 1	.75 gal / 100 sq ft	12 ± 2 dry mills	HD80 Traffic / Catalyst
Coating Layer 3	.75 gal / 100 sq ft	12 ± 2 dry mills	HD80 Traffic / Catalyst + Aggregate
Coating Layer 4	1 gal / 100 sq ft	16 ± 2 dry mills	HD80 Traffic / Catalyst
		42 dry mills total	(excluding aggregate)

Usage Table Light Pedestrian (Balcony) 26 Dry Mills Coating Steps

Primer	1 gal / 300 sq ft	3-5 dry mills (Primer)	SealBoss® Primer Pu / Ep
Coating Layer 1	.75 gal / 100 sq ft	12 ± 2 dry mills	HD80 Traffic / Catalyst + Aggregate
Coating Layer 2	.75 gal / 100 sq ft	12 ± 2 dry mills	HD80 Traffic / Catalyst
		26 dry mills total	(excluding aggregate)

This coat will result in an additional 16 ± 2 dry mills (360 ± 50 microns) thick membrane plus aggregate volume. Before proceeding to Layer 3 allow SealBoss® HD80 Traffic to cure a minimum of 16 hours, or 6 to 10 hours if catalyzed.

Coating Layer 3

Apply a second coat of SealBoss® HD 80 over the entire surface, including heavy traffic areas, at a rate of 3/4 gallon/100 sq. ft. (0.31 liters/m²). To decrease cure time, up to one 0.5 pint (125 ml) bottle of SealBoss® Catalyst per 5 gal SealBoss® HD 80 product may be added. Broadcast washed, dry, rounded sand, 20 mesh (0.05 in.; 1.2 mm), with 6.5+ Moh's minimum hardness into the wet SealBoss® HD 80 at the rate of 10 lbs/100 sq. ft. This coat will result in an additional 12 ± 2 dry mills (280 ± 50 microns) thick membrane plus aggregate volume. Before proceeding to Layer 4, allow SealBoss® HD 80 to cure a minimum of 16 hours, or 6 to 10 hours if catalyzed..

Coating Layer 4

Apply the third coat of SealBoss® HD 80 at the rate of 1 gallon/100 sq. ft. (0.41 liters/m²) over the cured product with aggregate. To decrease cure time, up to one 0.5 pint (125 ml) bottle of SealBoss® Catalyst per 5 gal SealBoss® HD 80 product may be added. This coat will result in an additional 16 ± 2 dry mills (360 ± 50 microns) thick membrane. At conditions of 70°F and 50% relative humidity allow light foot traffic after 24 hours and vehicular traffic not before 72 hours cure time. This recommendation is also valid for catalyzed product.

Accelerated Cure

The use of 0.5 pint (125 ml) SealBoss® Catalyst per 5 gallon product will shorten cure time to 6 to 10 hours for each coat. For best results apply next layer within 8 to 12 hours.

Finished System

When applied as directed above, the SealBoss® HD 80 vehicular deck system will provide 50 dry mills (plus aggregate) of superior waterproofing protection.

Striping

Recommended: High Quality Epoxy paint.



Technical Data

Meets ASTM-C957

Coverage:

Dry Film Thickness, (aggregate excluded)

per coat at 1 gal / 100 sq ft

Hardness, ASTM D-2240

Tear Resistance, Die C, ASTM D-624

Tensile Strength, ASTM D-412

Ultimate Elongation, ASTM D-412

Specific Gravity

Total Solids by Weight, ASTM D-2369

Total Solids by Volume, ASTM D-2697

Viscosity at 75°F (24°C)

Volatile Organic Compounds,

ASTM D-2369-81

Corrosiveness

Toxicity

Resistance to Chemicals

Packaging

Containers: HD 80 - 5 gal, 55 gal, 230 gal

Catalyst - 0.5 pint, quart, 5 gal

approx 16 mils

80-85 ± 5 Shore A

340 ± 30 pli

60 ± 6 kN/m

2100 ± 200 psi

15 ± 2 MPa

500% - 600% ± 50%

1.2

99.9%

99.9%

3400 ±1500cps

approx. 0.01 lb/gal

approx. 1 gm/liter

Non-Corrosive

Essentially Non-Toxic

in Cured Form

Resistant to Most Organic Solvents, Mild Acids, Alkali
and Micro Organisms



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Revised 201705



Grades: Horizontal & Vertical Applications Single Component, Bitumen Modified Waterproofing Membrane

SealBoss® FlexSeal Features

- Economical, User Friendly and
- Labor Saving
- Resistant to Bacterial Growth
- Meets the Criteria of ASTM C-836

Typical Application Environments

- Bridges
- Tunnels
- Split Slabs, Plaza Decks
- Basements, Balconies
- Foundation Walls
- Planters
- Culverts

Product Description

Type of Material

SealBoss® FlexSeal is a single component, liquid applied, bitumen modified, coal tar free, urethane polyurea based water proofing membrane. The product is available in two grades, H for horizontal and V for vertical applications.

Color: Black

Processing

Mixing

SealBoss® FlexSeal should be thoroughly mixed using a mechanical mixer at slow speed or manually in such fashion as to ensure a homogeneous material. Avoid entrapment of air into the material as air bubbles may form when membrane is applied.

Application

SealBoss® FlexSeal may be applied with various methods such as brush, squeegee, trowel or roller, such as a phenolic core roller. Apply the material evenly. Surfaces must be dry, clean and free of foreign matter.

Joints, Cracks and Flashing

SealBoss® FlexSeal may be applied over cracks and joints. For wider cracks, it is recommended to use a Polyester Tape or similar for additional strength. First apply some material and then embed reinforcement tape into material and fill with more material to smoothen the area with the adjacent surface.

Primer

Primer is optional but may be recommended to achieve the best possible results.

Curing

For multiple coat applications, allow coating to cure for a minimum of 16 hours and a maximum of 48 hours before proceeding to apply subsequent layers. (Recommendation is for 70°F / 21°C and 50% relative humidity.

SealBoss® FlexSeal is very sensitive to temperature and moisture. Higher temperatures and/or higher relative humidity will accelerate the cure time! Use caution in thickness of your application as thicker layers will prolong the cure time.

STORAGE

SealBoss® FlexSeal has a shelf life of six months in factory

sealed containers at room temperature and stored indoors.

Limitations

SealBoss® FlexSeal is not UV stable. The product is not intended for direct wear or abrasion. Containers that have been opened must be used as soon as possible. Product must not be diluted.

Maintenance of Equipment

Remove all excess sealant and any smears. Tools and mixing equipment are best cleaned immediately after use with an environmentally safe solvent as permitted under local regulations. Some solvents are hazardous, are aggressive towards plastic and rubber and might be in conflict with regulations on the jobsite. Caution! Some cleaners are combustible.

Precaution

Protect your health! While working with this material, safety goggles, gloves and safety clothing must be worn at all times. While injecting, a full-face shield is strongly recommended. Spills and blow-outs do happen! Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children!

Observe container labels, MSDS, and instructions in the Product Catalog before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations.



Technical Data

	FlexSeal V (Vertical)	FlexSeal H (Horizontal)
Appearance	Black	Black
Hardness, ASTM D-2240	40 ± 5Shore A	55 ± 5Shore A
Tear Resistance, Die CASTM D-624	70 ±10pli	70 ±10pli
	12.26 ± 1.8kNm	12.26 ± 1.8kNm
Tensile Strength, ASTM D-412	500 ± 75 psi	600 ± 75 psi
	4.83 ± 3MPa	5.53 ± 3MPa
Ultimate Elongation, ASTM D-412	500 ± 50%	500 ± 50%
Specific Gravity	1.21	1.21
Total Solids by Weight, ASTM D-2369	84 ± 3%	85 ± 3%
Total Solids by Volume, ASTM D-2697	76 ± 3%	76 ± 3%
Viscosity, at 80°F / 27°C	Pasty	4500 ± 2000 cps
Corrosiveness	Non-Corrosive	
Toxicity	Essentially Non-Toxic in Cured Form	

Please consult with our technical sales team for compliance in your specific area.
 This product contains Aromatic Hydrocarbons, Isocyanates and VOC.



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SealBoss®
Concrete Solutions

SealBoss®

R70 Pump Flush & Cleaner



Product Data Sheet

SealBoss® R70 Pump Flush & Cleaner Advantages

- NOT a Solvent - 100% Solvent Free
- Non-Flammable
- No Shipping Hazard Class
- Conditions Pump Seals and Hoses

PUMP SAFE

SealBoss® R70 Pump Flush & Cleaner does not have a hazard class for shipping and is not considered flammable. It offers many advantages over solvents on the job site for health and safety purposes.

SealBoss® R70 Pump Flush & Cleaner is not aggressive towards rubber and plastic parts and is safer for the pumping equipment. SealBoss® R70 Pump Flush & Cleaner non-drying properties serve as a lubricant.

First read and understand all manuals, data sheets and SDS of all the products and equipment intended for use. Wear appropriate safety gear at all times during the application and cleaning processes.

The maintenance and cleaning of your equipment is of the utmost importance to provide for safe workplace conditions. To rebuild a clogged up injection machine can be very costly, if not impossible.

Important: Clean the machine thoroughly and frequently.

The materials used for concrete injection are strong adhesives that will clog hoses and freeze mechanical pump parts if not cleaned out in time. Take the cleaning process seriously and spend the necessary time.

The larger the pump and its capacity including suction tubes and pressure line the more time it takes and the more cleaning agent you need to use. Never pump water with your grout injection pump. Do not leave material in the pump for an extended time.

Replace worn pump parts and hoses early enough to prevent accidents. Use only approved replacement parts. Be always safety conscious.

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The Three Step Cleaning Process

Step One - Purge

Purge the system of the injection material used.

Step Two - Flush

Pump cleaning should be approached and performed with two phases in mind. Initially, and only if in compliance with all applicable regulations on the job site (!), the clearing of residual material may be done with a very small amount of solvent that is compatible with the product. Follow all instructions and steps that are necessary to be in compliance with use of the solvent.

Please note that the chemical composition of solvents may harm the integrity of seals, gaskets and hoses of the pump.

Immediately following the initial purge, use necessary amounts of SealBoss® R70 Pump Flush & Cleaner to rid the pump of any residual solvents and product. Discard of the liquid. Do not recirculate at this point.

Step Three - Recirculate

After the majority of grout has been purged and flushed from the system use enough SealBoss® R70 Pump Flush & Cleaner for at least five (5) minutes at a higher pressure setting and recirculate the product. Open and close the shut-off valve several times quickly to build up pressure and allow for high velocity flow of cleaning liquid. This process will help condition the gaskets, hose interiors, etc., prolonging the lifespan of your investment.

You may keep a residual amount of clean SealBoss® R70 Pump Flush & Cleaner in the system as lubricant.

These are guidelines only without any claim of completeness assuming the use of products supplied by SealBoss® Corp. Your conditions may call for modified and even more extensive cleaning efforts.

Important: Be compliant!

Discard of all liquids complying with legal requirements. Do not pollute.

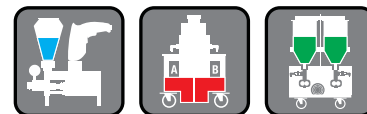


SealBoss® R70 Pump Flush & Cleaner

Revised 201705



DISPENSING EQUIPMENT, PACKERS & ACCESSORIES



SealBoss® supplies a wide variety of professional injection pumps and equipment to match the injection product properties, the application and the budget of the applicator. The choice of the right pump for the injection resins or grouts to be used is an important factor that may determine if a job will be accomplished successfully and if it will be finished within the given deadlines.

Essentially, we identify three categories of pumps. Single component pumps for most hydrophobic polyurethanes, fixed ratio two component pumps for epoxy injection, and multi-ratio pumps for hydrophilic polyurethanes.

Single component pumps are characterized by a one piston or diaphragm operation, capable of pumping one material at a time. Hydrophobic polyurethanes like the **SealBoss® 1510 WaterStopFoam**, **SealBoss® 1570 WaterStopFoam** and the **SealBoss® 1403 SLV Resin** can be pumped with single component equipment. The moisture in the area to be injected will induce reaction of the material. Pumps for polyurethane injection should be capable of creating at least 1500 psi, since injection into fine cracks sometimes requires very high initial pressures in order to achieve sufficient penetration.

Some hydrophilic polyurethanes and gels require a high ratio system able to pump two components of grout or grout and water at 1:10 for example. Due to the short pot life, premixing of the components with water is not possible. Acrylate Gels should be injected with a high ratio stainless steel components machine only. **SealBoss® FlexGel Hydrophilic Gel** can be pumped either with single or high ratio equipment depending on the application.

Two component pumps with a fixed ratio such as 2:1 or 1:1 are generally used for epoxy injection resins such as **SealBoss® 4040 LV Epoxy Resin** and related products. Some epoxy jobs can be done with a single component pump (watch the pot life closely).

A dedicated two component epoxy pump is recommended for larger jobs. The injection machine will provide an accurate mix ratio and the components are kept separately until thoroughly mixed in the static mixer thus allowing the contractor to focus on the injection rather than on mixing procedures and pot life. Due to the nature of the epoxy resin and the injection techniques, injection pressures are usually lower than those for polyurethane injection. 300 psi or less might be sufficient, but it doesn't hurt if the pump offers a little more "power", especially if the material is of higher viscosity, in colder climates and if long pressure lines are necessary.

As alternatives, the Epoxy Cartridge System and Polyurethane Cartridge System offers amazing capabilities without investing in expensive equipment.

The size and frequency of injection jobs and the conditions on the job site should determine which pump to select. Initial cost is not always an accurate indicator of total expenses. Where hand operated systems may do the job just fine, electric or pneumatic equipment may pay for itself by reducing the time and labor costs dramatically.

Accessories such as packers, ports, grout lines and valves are just as important as the pumps. The right combination of pumps, accessories and grouts, results in an "Injection System" which enables the contractor to do his job in a professional, efficient, successful and profitable manner. SealBoss® is dedicated to supply you with the best professional and job approved injection equipment and materials. Not just the chemicals, not just the equipment, but complete proven and innovative injection systems.





SealBoss® Packer Advantages

- SealBoss® Brand Standards & Quality Since 1988
- Largest Selection & Inventory in the Industry
- Your Port Authority: Millions Sold
- Competitive Prices
- Custom Fabrication

Like thousands of contractors world wide you will be using a SealBoss® quality packer for your injection job. Packers come in many sizes and shapes. Prices range widely and more expensive is not always better, plastic may not be as effective as metal and rubber or vice versa.

There is a reason for our large selection. The injection method and material properties will determine the hardware. Are your cracks actively leaking, are they dry, do you use epoxy or do you inject polyurethane? How much pressure will be used, how do you connect your grout line?

There are two primary categories of packers available. Insertable packers (mechanical packers) and surface mounted ports. Mechanical packers are typically used for polyurethane injection and high pressure epoxy injection. Since they are not glued to the surface, they work well in wet areas and with decayed 'problem' concrete.

Mechanical packers come with zerk fittings and button heads (slide fittings). The zerk type is more commonly used and is less costly. It easily connects and disconnects and works nicely with medium to high injection pressures. The button head type can be of advantage in high volume applications and it offers a superior connection which is helpful for single operator injection and large applications. Injection pressure is the keyword. To determine a quality packer it must withstand high injection pressures without leaking and moving out of it's drill hole. A snug fit and solid connection are mandatory. Nobody likes packers to fail at injection pressures of 1000 psi and more. Now, realistically speaking even the best packer may slightly leak at the connection at extreme pressures. But there is the difference between a drip and a gush.

SealBoss® premium packers are mostly made of metal and an expandable rubber sleeve to minimize concrete spalls and packer blow outs. A medium soft, 'made to stick' rubber that evenly expands diameter while compressed provides the best grip. Mechanical packers made of plastic and plastic sleeves are typically at a disadvantage at very high pressures, but may suffice at lower pressure, high volume injection jobs. Keep in mind, a snug and reliable fit is always essential for the safety

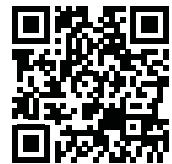
of the technician and the key factor for successful injection work. Do not compromise safety.

The size of the packer you need depends on the volume to be pumped, drill depth, injection pressures to be applied as well as cosmetic and other considerations. Common diameters are 1/4 inch, 6 mm, 3/8 inch, 8 mm, 10 mm, 1/2 inch, 13 mm, 5/8 inch, 16 mm and sometimes 3/4 inch or even larger. (In mining applications for example, packers can be several feet long and several inches thick) For concrete injection, typically the 1/2" and 5/8" packer seem to be the best compromise in strength and size and can be called a standard. The smaller 3/8" (10mm) types have been gaining in popularity though. Long versions and extensions are also available. It is good practice to keep the drill-holes rather smaller than larger when selecting your packer size.

Design considerations such as location of an anti-return valve, ease of use etc. may be of concern. We generally recommend mechanical type packers for most jobs. Their design can cope with most demands found at an injection job and the 'problem rate' is very low - a packer for all conditions. If high product flow at lower pressures is desired, the 5/8" button head packers achieve good results. The 3/8 Hammer-In packer performs at low pressures in excellent concrete. Precise round drill holes are important for a snug fit. Surface ports are commonly used for epoxy injection at low injection pressures. They are glued to the concrete surface. A spread out base with holes is recommended for good adhesion. The grout line can then be attached with a quick-connect system. Since most surface ports lack an anti-return valve, a seal cap is provided for use after injection.

SealBoss® provides unique ports for specialty applications such as a surface port with a zerk fitting to utilize single component injection systems for small epoxy and polyurethane jobs, the injection screw for the SealBoss Inject Tube System 2000 for cold joints and other specialty packers.

SealBoss® is a leading supplier of injection packers. We keep a large inventory of different sizes, shapes, materials and connections. Our great turnover rate permits us to offer packers at the most competitive prices possible. Call us and request your free samples. Get the right packers for your job and save money now!



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- | | |
|--------------|---|
| • Design | G3i Industrial Grade Design with New Features |
| • Frame | Robust, Modern & Sleek Steel Design, Stronger & Smaller Footprint |
| • Pumps | Advanced Gear Pump System, Improved Flow Rate & Seals |
| • Motor | Industrial, CE Grade Engineered High Tech Motor |
| • Digital | Programmable Logic Controller with Digital Display |
| • Applicator | Low Amp/Volt Safety Control Line to Applicator with Control Dial |

Welcome to the Digital Age in Floor Repair

- Professional Use
- Two-Component
- Joint Sealer
- Highway Joint / Crack Repair
- Polyurea
- Polyurethane
- Epoxy

Inside and Outside Applications

- Warehouses
- Parking Structures
- Highway Repair
- Driveways
- Control Joints

Custom Equipped to Your Order

- Tank Volume
- Tank Material
- Manifold Cleaning Options
- Heater Band Option
- Battery & Inverter Option
- Generator Option
- 110 Volt Standard
- 220 Volt International Markets



The SealBoss® JointMaster Pro2 G3i Digital machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the JointMaster Pro2 G3i Digital Manual for more information. Due to the nature of a dispensing machine like the SealBoss® JointMaster Pro2 G3i Digital, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.

SealBoss® JointMaster Pro2 G3i Digital Machines are custom equipped. Models may vary.

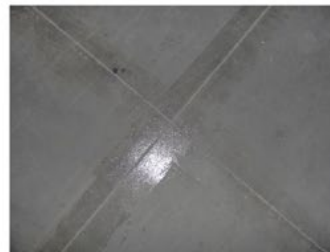
SealBoss® JointMaster Pro2 G3i Digital

Implementing Over 10 Years of Experience and Customer Feedback

- The New JointMaster Pro2 Gen3i is Designed for a Wide Variety of Joint Filler Products
- New Pump Units, 10 Times Improved Seal Pressure Resistance
- New Programmable Digital Motor Control with Display for Consistent Product Flow & Higher Output
- Safety - Low Voltage Signal Line to Applicator
- New CE Rated Motor with Much Lower Energy Consumption - Run Longer on Battery!
- Improved, Fully Enclosed Drive Design, 3 Shaft, Reduced Friction Energy Saving Design
- New Frame Design - Smaller Footprint, Quality Fit & Finish, Better Handling, Stronger Frame
- Very High Build Quality, Sharp and Professional on the Jobsite, Enhance Your Company's Image
- Stainless Steel Tanks Standard, other Options Available
- Custom Equipped - Tank Size, Battery & Applicator Options
- International Versions, 110V, 220V, 50-60Hz

Specifications

Weight:	Basic Pump 205 lb dry. Extra equipment not included.
Height:	44" (5 gal tanks) , 47" (6 gal tanks) Width: 25", Length: 29.5"
Motor:	1/2 [hp], ~200 [lb-in], AC Gear
Pumps:	Internal rotary gear pumps
Tanks:	5 gal/ 6 gal, 14 gauge 304 stainless steel
Power:	110V 5A, 220V version available
Hoses:	3/8" x 14.5' braided, protective sleeve
Wheels:	6", swivel wheels with brakes
Control:	Extended lightweight handle, dual port manifold, digital speed control. Low voltage control line to applicator Programmable Digital Control
Viscosity:	approx. 50-4000 cps, depending on material, please call.
Flow Rate:	approx. 0.1 to over 1 gallon per minute
Ratios:	1:1 by volume ratio standard, other ratios available



SealBoss® QuickFix Joint Filler & Spall Repair Products



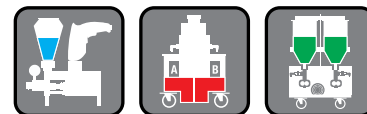
SealBoss® Corp. recommends SealBoss® QuickFix Products for use with the SealBoss® JointMaster Pro2 Gen3i pump systems.



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Revised 201705

PA 3000 Epoxy Injection Pump



Product Data Sheet

**Two Component
Pneumatic Epoxy Injection Machine**

SealBoss® PA 3000 Epoxy Injection Pump Advanced Design Features

- Complete Set Including Hoses And Applicator
- 800 PSI
- 2:1 or 1:1 Mix Ratios
- 3" Air Cylinder
- Positive Displacement Piston
- Pressure Lines Included
- Compact and Lightweight
- Rugged Construction
- Very Affordable
- Easy To Use / Clean
- Reliable, Proven Design

The **SealBoss® PA 3000 Epoxy Injection Pump** combines high quality with a very competitive price.

The SealBoss® PA 3000 Epoxy Injection Pump sets new standards for performance and features.

The machine is furnished with male hose adapters and push-in tube connectors for the pneumatic lines. Hoses are available in a variety of sizes. We also supply surface ports in several sizes and split sets for multi port injection. Please refer to our data sheet on the **The SealBoss® Epoxy Injection Multiple Port System** for further information.

The SealBoss® PA 3000 Epoxy Injection Pump is suitable for the two component SealBoss® Epoxy Injection Line products and Polyurethane Resins and related products with viscosities between 10 and 1000 cps. Contact your SealBoss® technician to confirm that your product is suitable for use with this machine.

The SealBoss® PA 3000 Epoxy Injection Machine has been refined and improved over many years for highest reliability and daily use. The pump features a three inch air cylinder for pressures up to 800 psi. The higher injection pressures allow for better performance with thicker resins and with all materials at lower temperatures.

The tanks are unitized and mounted on four easy roll caster wheels with breaks. The machine is very mobile. The pump is available in 2:1 or 1:1 mixing ratio versions. With purchase of a separate piston/cylinder unit mixing ratios can be easily interchanged.



This complete package includes material reservoirs, the applicator with static mixer and a 12' set of high pressure hoses.



Metering Pump Specifications

Standard Ratios	1:1 or 2:1
Material Flow Rate	Approx. 0.4 GPM
Dimensions	14" x 22" x 29"
Weight	100 lb
Tank Capacities	3 1/3 gal ea
Material Viscosity	Pourable, 10-1000 cps
Outlet Pressure	15-800 psi
Air Requirements	1 CFM 40-120 psi

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Revised 201705

SealBoss®

P3003-2C Injection Pump



Product Data Sheet Two Component Injection Pump Manual

SealBoss® P3003-2C Injection Pump Manual

- Very affordable two component pump system
- 2:1 ratio standard, 1:1 upon request
- Can be used as 1 Component System
- Compact & Sturdy Design
- Heavy duty for daily use
- Lightweight
- > 5000 PSI
- Easy to use, clean & maintain
- Pressure gauges
- Hoppers included
- Hose Sets (mechanical packer version / static mixer version) sold separately

The **SealBoss® P3003-2C Injection Pump** features a compact and sturdy design with integrated hoppers and stand.

This lightweight and powerful injection pump can be used for dual component epoxy and/or polyurethane injection resin with viscosities between 10 and 1000 cps. Call your SealBoss® technician for details. Please specify 2:1 or 1:1 ratio. Conversion cylinders sold separately.

Suitable for mid-size jobs and daily use this is the perfect machine for epoxy and waterproofing contractors performing commercial work and residential injection. With this pump it is a snap to get in and out of basements and confined areas as found on many job sites.

This pump is of professional grade quality for every day use. The output and pressure are exceptional for a machine of this size. The modular design keeps maintenance cost low and allows for easy cleaning.

Parts can be replaced by the savvy contractor to keep downtime at an absolute minimum.

This pump is powered by an electric drill which is sold separately by SealBoss®. The drill offers a variable speed adjustment to adjust material volume and pressure.

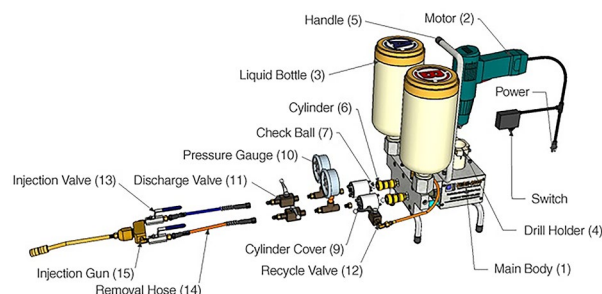
Contact your SealBoss® technician to confirm that your product can be suitable for use with this machine.

The pump can be used with our line of injection packers and ports.

Special SealBoss® applicators are available for polyurethane / mechanical packer and epoxy / two-component surface port injection can be ordered separately. Ask your SealBoss® technician for details.

North America: Standard variable speed electric drill 110V sold separately.

International Orders: Special order variable speed electric drill 220V (lead time and cost subject to availability at time of order) or voltage converter available on request. Please consult with your SealBoss® technician.



Set-up as shown for use with mechanical packers

Technical Data

Mix Ratio:	2:1 or 1:1 custom upon request
Max Pressure:	> 5000 psi
Flowrate:	30 ml to 1000 ml per min (1 quart/min)
Weight:	12 kg / 27 lbs

Electric Drill, adaptors/fittings and packers sold separately. Please ask your SealBoss® technician for suitable injection grouts. Viscosity range 10-1000 cps.

1:1 and 2:1 mix ratios with exchange of piston.

SealBoss® P3003-2C Injection Pump



- | | |
|--------------|---|
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| • Frame | Robust, Modern & Sleek Steel Design, Stronger & Smaller Footprint |
| • Pumps | Advanced Gear Pump System, Improved Flow Rate & Seals |
| • Motor | Industrial, CE Grade Engineered High Tech Motor |
| • Digital | Programmable Logic Controller with Digital Display |
| • Applicator | Low Amp/Volt Safety Control Line to Applicator with Control Dial |

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- Highway Joint / Crack Repair
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- Epoxy

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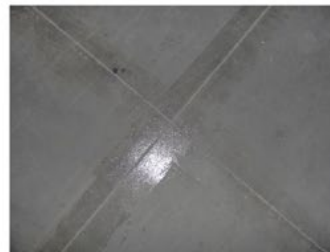
SealBoss® JointMaster Pro2 G3i Digital

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- Safety - Low Voltage Signal Line to Applicator
- New CE Rated Motor with Much Lower Energy Consumption - Run Longer on Battery!
- Improved, Fully Enclosed Drive Design, 3 Shaft, Reduced Friction Energy Saving Design
- New Frame Design - Smaller Footprint, Quality Fit & Finish, Better Handling, Stronger Frame
- Very High Build Quality, Sharp and Professional on the Jobsite, Enhance Your Company's Image
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- International Versions, 110V, 220V, 50-60Hz

Specifications

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Height:	44" (5 gal tanks) , 47" (6 gal tanks) Width: 25", Length: 29.5"
Motor:	1/2 [hp], ~200 [lb-in], AC Gear
Pumps:	Internal rotary gear pumps
Tanks:	5 gal/ 6 gal, 14 gauge 304 stainless steel
Power:	110V 5A, 220V version available
Hoses:	3/8" x 14.5' braided, protective sleeve
Wheels:	6", swivel wheels with brakes
Control:	Extended lightweight handle, dual port manifold, digital speed control. Low voltage control line to applicator Programmable Digital Control
Viscosity:	approx. 50-4000 cps, depending on material, please call.
Flow Rate:	approx. 0.1 to over 1 gallon per minute
Ratios:	1:1 by volume ratio standard, other ratios available



SealBoss® QuickFix Joint Filler & Spall Repair Products














SealBoss® Corp. recommends SealBoss® QuickFix Products for use with the SealBoss® JointMaster Pro2 Gen3i pump systems.



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Injection Pump Overview

Product Name	Application	Benefits	Image
SL 1C Signature Line	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Top of the Line - Professional Use • Hopper Design (5 gal), Easy Cleaning • Electric Motor • Diaphragm System • 3000 psi - 1 Component 	
SLP 1C Signature Line	High & Low Pressure Polyurethane Injection Pneumatic	<ul style="list-style-type: none"> • Top of the Line • Pneumatic • 3200 psi • 1 Component 	
SLP 2C Signature Line	High & Low Pressure Polyurethane Injection Pneumatic	<ul style="list-style-type: none"> • Top of the Line • Pneumatic • 1500 psi • 2 Component 	
SLP 2C-5G Signature Line	High & Low Pressure Polyurethane Injection Slab Lifting GeoTech Soil Stabilization	<ul style="list-style-type: none"> • Top of the Line - Professional Use • Economical Cold Foam Lifting, Injection • Electric Motor • Dual Piston System • 4000+ psi • 2 Component, Ratio: 1:1 	
SLP 3C Gel Pump	High & Low Pressure Acrylate (Acrylic) Gel Injection	<ul style="list-style-type: none"> • Top of the Line - Stainless Steel • Pneumatic • 3200 psi • Superior 2 Component Gel Pump • Ratio: 1:1, 1 Comp. Flush Pump 	
IP2C Stainless Steel Gel Injection	High & Low Pressure Acrylate (Acrylic) Gel Injection	<ul style="list-style-type: none"> • Top of the Line - Stainless Steel • Pneumatic • 2600 psi • Superior 2 Component Gel Pump • Ratio: 1:1 • 1 Component Water Flush Pump 	
PA3000 The Epoxy Standard	High & Low Pressure Epoxy Injection & Polyurethane Resin Injection	<ul style="list-style-type: none"> • Top of the Line - Professional Use • Pumps EP and PU resin • Pneumatic • 850 psi • 2 Comp., Ratio: 2:1 Stand., 1:1 Custom 	
P3003-2C PU & EP	High & Low Pressure Epoxy & Polyurethane Injection Piston System	<ul style="list-style-type: none"> • Versatile, Pumps EP and PU Resin • Electric Drill Operated • Dual Piston System • 4000 psi • 2 Component, • Ratio: 2:1 standard, 1:1 custom 	
P2002 Injection Standard	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Light Weight, Modular Design • Electric Drill Operated • Single Piston System • 6000+ psi - 1 Component 	
IP495	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Larger Project, Extended Injection • Electric Motor • Piston System • 2500 psi - 1 Component 	
HP100	High & Low Pressure Polyurethane Injection	<ul style="list-style-type: none"> • Hand Operated • Easy to operate • Single Piston System • 1800 psi - 1 Component 	

SealBoss®

SL1C Injection Pump



Product Data Sheet
Single Component Membrane Pump

SealBoss®
Signature Line

- Membrane Pump SL1C has a delivery max of .5 GPM (1.9 lpm)
- Single component pump suitable for Epoxy and polyurethane grouts
- Stainless steel construction suitable for most chemical grouts
- Pressure gauge readings accurate from 0-3000 psi (200 bar)

Applications

- Polyurethane Injection
- Pre-mixed Epoxy Injection
- Crack Injection
- Water Control Grouting
- Permeation Grouting
- Compaction Grouting

Sold Separately

- Injection Packers
- Injection Lances
- Pump Flush

Operation

- Electric
- Single Component Materials
- Stainless Steel Construction
- Recirculation Line for Pressure Relief
- High Quality Construction

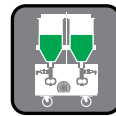
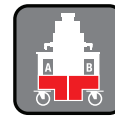


Technical Data

Working Pressure:	0-3000 psi (200 bar)
Delivery:	max 0.5 GPM / 1.9 lpm
Motor Voltage:	110V
Weight:	48 lb / 22 kg
Dimensions:	30" x 11" x 23"



Revised 201811



SLP 1C - 1 Comp. Pneumatic Pump

Product Data Sheet
Polymer Pump System



- Design Industrial Grade, Light-Weight Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Strong & Small Footprint
- Pump Advanced Pneumatic Piston Pump System
- Applicator Newly Designed Applicator with Control Grip

Range of Applicable Materials

- Polyurethane resin
- Polyurethane foam grout
- Aqueous solution

Advantages

- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic design



Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products

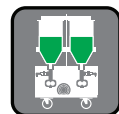
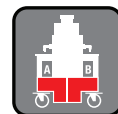
The SealBoss® SLP 1C single component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps.

Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.





SLP 1C - 1 Comp. Pneumatic Pump

Product Data Sheet
Polymer Pump System

Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products

Specifications



Weight: 31lbs 14 kg
Dimensions: LxWxH 18"x20"x27 45x50x67cm
Working Pressure: 75-3300psi 7-220 bar, variable
Delivery Rate, max: 1.4 gal/min 5.1 l/min

Intake Air Pressure, max: 120psi 8 bar
Air consumption and delivery rate at 1500psi / 100 bar injection pressure

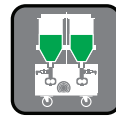
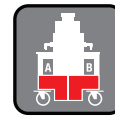
Air consumption	Delivery rate
3 cfm, 90 l/min	.15 gal/min 0.5 l/min
6 cfm, 183 l/min	.25 gal/min 1 l/min
10 cfm 308 l/min	.5 gal/min 2 l/min
15 cfm 433 l/min	1 gal/min 3.8 l/min

The SealBoss® JSealBoss® SLP 1C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 1C Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 1C I, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.



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Revised 201901



Range of Applicable Materials

- Polyurethane resin
- Polyurethane foam grout
- Epoxy resin
- Aqueous solution

Advantages

- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic design

Mix Ratio

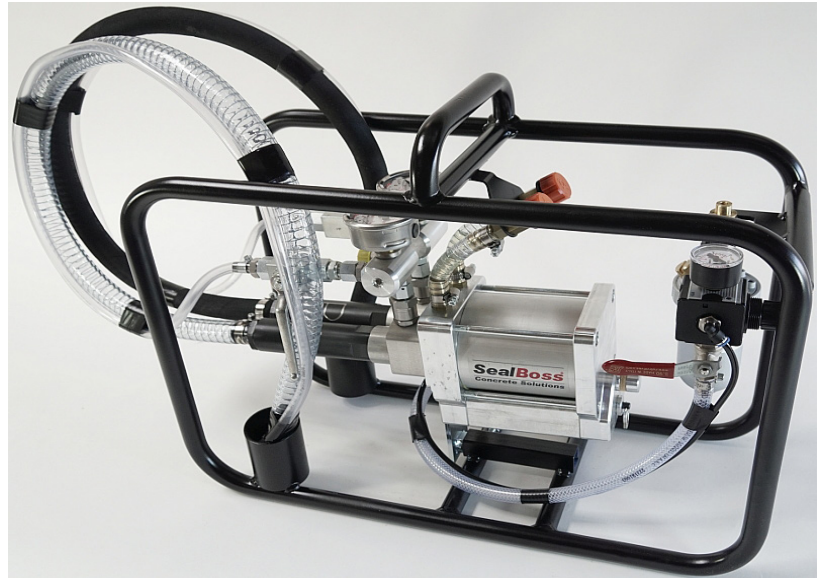
- 1:1 by volume

Applicator

- Two component applicator made from highest quality, heavy duty components



- Design Industrial Grade, Light-Weight Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Strong & Small Footprint
- Pump Advanced Pneumatic Piston Pump System
- Applicator Newly Designed Applicator with Control Grip



Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products

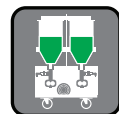
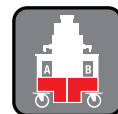
The SealBoss® SLP 2C two component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps.

This pump is set to a 1:1 mixing ratio by volume. Product is fed directly from the product containers via suction tubes. Pressure hoses and applicator are supplied with the machine.

Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.



SLP 2C - 2 Comp. Pneumatic Pump

Product Data Sheet
Polymer Pump System

Air-Powered Systems for Crack Injection, Curtain Injection and SlabLifting with SealBoss Polymer Products

Specifications

Weight: 45bs 20 kg
Dimensions: LxWxH 23"x10"x18 58x24x46cm
Working Pressure: 150-1500psi 10-100 bar , variable
Delivery Rate, max: 2 gal/min 7.6 l/min

Mix Ratio, by volume: 1:1
Intake Air Pressure, max: 120psi 8 bar
Air consumption and delivery rate at 1500psi / 100 bar injection pressure
Air consumption Delivery rate
2.6 cfm, 75 l/min .15 gal/min 0.5 l/min
4.5 cfm, 130 l/min .25 gal/min 1 l/min
10 cfm 280 l/min .5 gal/min 2 l/min
14 cfm 390 l/min 1 gal/min 3.8 l/min

The SealBoss® JSealBoss® SLP 2C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 2C Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 2C I, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.



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Revised 201901

SLP 2C-5G High Output 2 Comp. Pneumatic Pump

Product Data Sheet
Polymer Pump System



- Reciprocating Pump SL2C achieves a delivery max of 5 GPM (19lpm)
- Mixing Ratio of 1:1 suitable for Polyurethane and Silicates
- Large valves and pistons allow for large variation of viscosity
- Pressure gauge readings accurate from 0-6000 psi (400 bar)

Applications

- Slab lifting
- Crack injection
- Consolidation grouting
- Water control grouting
- Permeation grouting
- Compaction grouting

Operation

- Pneumatic
- 2 Component polyurethane grouts
- Convenient rolling cart
- High quality construction

Sold Separately

- Applicator handle
- Material hoses
- Injection packers
- Injection lances



High Output Air-Powered System for Curtain Injection, Consolidation Grouting/Soil Stabilization & Slab Lifting with SealBoss Polyurethane Products

The SealBoss® SLP 2C-5G is a heavy duty two component, pneumatic reciprocating piston injection machine in our signature line of professional and purpose built injection pumps.

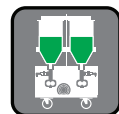
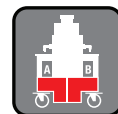
This pump is set to a 1:1 mixing ratio by volume. Product is fed directly from the product containers via suction tubes.

The relatively low purchasing cost paired with the high output volume makes this pump suitable for mid size slab lifting jobs where lifting is performed with a cold foam such as SealBoss 1640.

Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.



SLP 2C-5G High Output 2 Comp. Pneumatic Pump

Product Data Sheet
Polymer Pump System

High Output Air-Powered System for Curtain Injection, Consolidation Grouting/Soil Stabilization & Slab Lifting with SealBoss Polyurethane Products Specifications



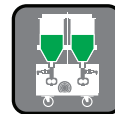
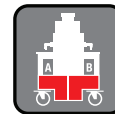
Working Pressure:	225-3000 psi (5-200 bar)
Delivery:	max 5 GPM / 19 lpm
Air Consumption:	2.5 m ³ /min
Transmission Ratio:	1:25
Mixing Ratio:	1:1
Weight:	202 lbs / 92 kg
Dimensions:	25.5" x 22" x 43"

The SealBoss® SLP 2C-5G machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 2C-5G Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 2C-5G, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.



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Revised 201901



SLP 3C 2+1 Comp. Pneumatic Gel Pump

Product Data Sheet
Polymer Pump System

Range of Applicable Materials

- Polyacrylate gel
- Polyurethane resin
- Polyurethane foam grout
- Aqueous solution

Advantages

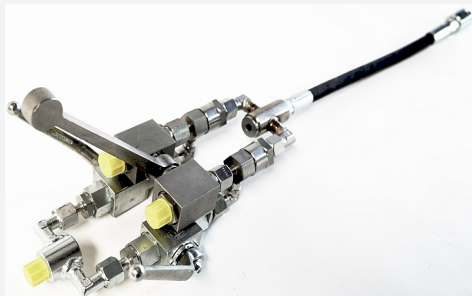
- Stainless steel (material contact)
- 2 Plus 1 component
- Water flush pump built-in
- Extremely light-weight design
- Robust, heavy duty components
- Large material passages for use of products with higher viscosities
- Piston seals do not require tensioning
- Easy maintenance and repair
- Pneumatic design

Mix Ratio

- 1:1 by volume
- 1 Comp. water flush pump

Applicator

- Three component applicator made from highest quality, heavy duty components



- Design Industrial Grade, Light-Weight Design with New Features
- Frame Robust, Modern & Sleek Steel Design, Strong & Small Footprint
- Pump Advanced Pneumatic Piston Pump System
- Applicator Newly Designed Applicator with Control Grip



Air-Powered System for Crack Injection, Curtain Injection and Soil Stabilization with SealBoss Acrylate Gel Products

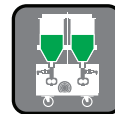
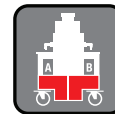
The SealBoss® SLP 3C two plus one component, pneumatic reciprocating piston injection machine is a new addition to our signature line of professional and purpose built heavy duty injection pumps. All internal pump parts in contact with product are made from stainless steel.

This pump offer a two component product setup and a built-in water pump to flush acrylate gel pump directly after use. The product pums are set to a 1:1

mixing ratio by volume. Product is fed directly from the product containers via suction tubes. Pressure hoses and applicator are supplied with the machine. Our pneumatic pumps are easily maintained, highly reliable and very easy to use. Air flow is effortlessly controlled and our pumps perform very well at low and high rates of product flow. Our pumps feature relatively large internal clearances in the major fluid passages (i.e. large intake and discharge openings), that allow liquids of higher viscosities to pass.

Air-powered pumps have been highly developed to provide long-term reliability and durability even under difficult injection conditions. With the air-powered design there is inherently less mechanical load and wear on key components than with other designs. Long term durability is achieved by the relatively low-speed, high clearance nature of the moving parts. Air-powered pumps have a unique advantage in their ability to throttle back flow to meet changing site needs. Stop/start cycle limitations do not apply to these pumps, so no adjustments need be made when dispensing rates decrease; the air-powered pump will function as intended, at a reduced refill/discharge cycle rate. If pump output rate reduction is desired, the applied air pressure can be easily adjusted downward with the provided regulator.

With air-powered pumping systems, airlines are run to the pump instead of electricity, which provides immediate benefits in simplicity and safety. Pumps are delivered as a complete system, with all the necessary tubing, connectors and applicators.



SLP 3C 2+1 Comp. Pneumatic Gel Pump

Product Data Sheet
Polymer Pump System

Air-Powered System for Crack Injection, Curtain Injection and Soil Stabilization with SealBoss Acrylate Gel Products

Specifications



Weight: 64bs 29 kg
Dimensions: LxWxH 31"x15"x32 78x39x80cm
Working Pressure: 100-3200psi 7-220 bar , variable
Delivery Rate, max: 2.1 gal/min 8 l/min

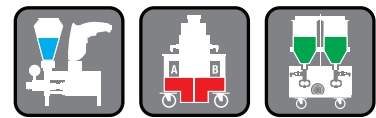
Mix Ratio, by volume: 1:1
Intake Air Pressure, max: 120psi 8 bar
Air consumption and delivery rate at 1500psi / 100 bar injection pressure
Air consumption Delivery rate
2.9 cfm 83 l/min .15 gal/min 0.5 l/min
5.8 cfm 166 l/min .25 gal/min 1 l/min
12 cfm 342 l/min .5 gal/min 2 l/min
13 cfm 390 l/min 1 gal/min 3 l/min

The SealBoss® JSealBoss® SLP3C machine is for professional use. Please contact a SealBoss® representative for detailed information and to confirm that your product is suitable for use with this machine. Specific product data sheet and SDS of product to be intended for use will help you to determine the suitability. Please refer to the SealBoss® SLP 3C Manual for more information. Due to the nature of a dispensing machine like the SealBoss® SLP 3C I, user shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any materials supplied or distributed by SealBoss® Corp. relieves the user of the obligation to read and follow the warnings and instruction for each SealBoss® Corp. product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss® Corp. warrants its products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss® Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss® Corp. does not take back or restock any used equipment. SealBoss® Corp. does not apply credit for used equipment.



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Revised 201901



SealBoss® IP2C Gel Injection Pump Features

- Stainless Steel Pumps & Applicator
- Sophisticated Design, Simple Operation
- Heavy Duty / High Reliability
- 3000 PSI
- 1:1 Mix Ratio
- High Metering Accuracy
- Separate Flush Pump
- Pressure Lines Included
- Easy To Use / Clean

The **SealBoss® IP2C Gel Injection Pump** sets new standards for performance, design and features. This complete package includes the stainless steel applicator with static mixer, a 15' triple set of high pressure hoses, triple set of suction hoses. The individual components are pumped separately and mixed in the mix head of the applicator while pumped through a plastic disposable element. Check valves prevent the components from cross contamination.

An integrated high-pressure flush pump is built in for cleaning the mixing chamber via a separate flush line any time work is interrupted. We supply buttonhead packers in several sizes and designs to work with this very strong and reliable injection pump. Super Flexible Acrylate Gels are the recommended product for use with this pump.

Cleaning Procedure For Use With Acrylate Gel. For short breaks during the injection process the mix head can be flushed with water or flushing agent with the separate flush pump (separate suction tube and flush pressure line). The applicator handle has to be placed in flush mode.

After completion of injection the hole pump system needs to be flushed. Place the suction hoses into the flushing agent tank and rinse all hoses thoroughly by operating the pump at lower pressure setting.

Included with Purchase:

High pressure double injection pump, high pressure flush pump, control fittings and gauge.
Three suction hoses 1.5m, 5ft.
Three high pressure hoses 5m, 15 ft.
One special mix / flush head with disposable mix elements, one flex hose with zerk or slide coupler.

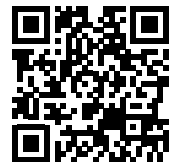


Technical Data

Standard Ratio	1:1
Material Flow Rate	Approx. 3.7 gal/min, 14 l/min at 1 psi
Weight	104 lb, 47 kg
Dimension LxWxH	55x50x100 cm
Gear Ratio	25:1
Material Viscosity	1 cps - 400 cps
Max Pressure	3000 psi, 200 bar
Total Delivery per Stroke	approx 5 cub inch, 80cm ³
Air Requirements	6-12 CFM at 90 psi 200-400 l/min at 6 bar
Max Air Intake Pressure	120 psi / 8 bar
Pressure ratio	25:1
Noise level at Idle	75 db
under Load	73 db

COLOR CODED LINES:

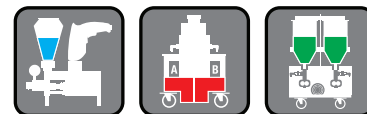
COMPONENT A: BLUE
COMPONENT B: RED
WATER FLUSH LINE: YELLOW



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Revised 201705

PA 3000 Epoxy Injection Pump



Product Data Sheet

Two Component Pneumatic Epoxy Injection Machine

SealBoss® PA 3000 Epoxy Injection Pump Advanced Design Features

- Complete Set Including Hoses And Applicator
- 800 PSI
- 2:1 or 1:1 Mix Ratios
- 3" Air Cylinder
- Positive Displacement Piston
- Pressure Lines Included
- Compact and Lightweight
- Rugged Construction
- Very Affordable
- Easy To Use / Clean
- Reliable, Proven Design

The **SealBoss® PA 3000 Epoxy Injection Pump** combines high quality with a very competitive price.

The SealBoss® PA 3000 Epoxy Injection Pump sets new standards for performance and features.

The machine is furnished with male hose adapters and push-in tube connectors for the pneumatic lines. Hoses are available in a variety of sizes. We also supply surface ports in several sizes and split sets for multi port injection. Please refer to our data sheet on the **The SealBoss® Epoxy Injection Multiple Port System** for further information.

The SealBoss® PA 3000 Epoxy Injection Pump is suitable for the two component SealBoss® Epoxy Injection Line products and Polyurethane Resins and related products with viscosities between 10 and 1000 cps. Contact your SealBoss® technician to confirm that your product is suitable for use with this machine.

The SealBoss® PA 3000 Epoxy Injection Machine has been refined and improved over many years for highest reliability and daily use. The pump features a three inch air cylinder for pressures up to 800 psi. The higher injection pressures allow for better performance with thicker resins and with all materials at lower temperatures.

The tanks are unitized and mounted on four easy roll caster wheels with breaks. The machine is very mobile. The pump is available in 2:1 or 1:1 mixing ratio versions. With purchase of a separate piston/cylinder unit mixing ratios can be easily interchanged.



This complete package includes material reservoirs, the applicator with static mixer and a 12' set of high pressure hoses.

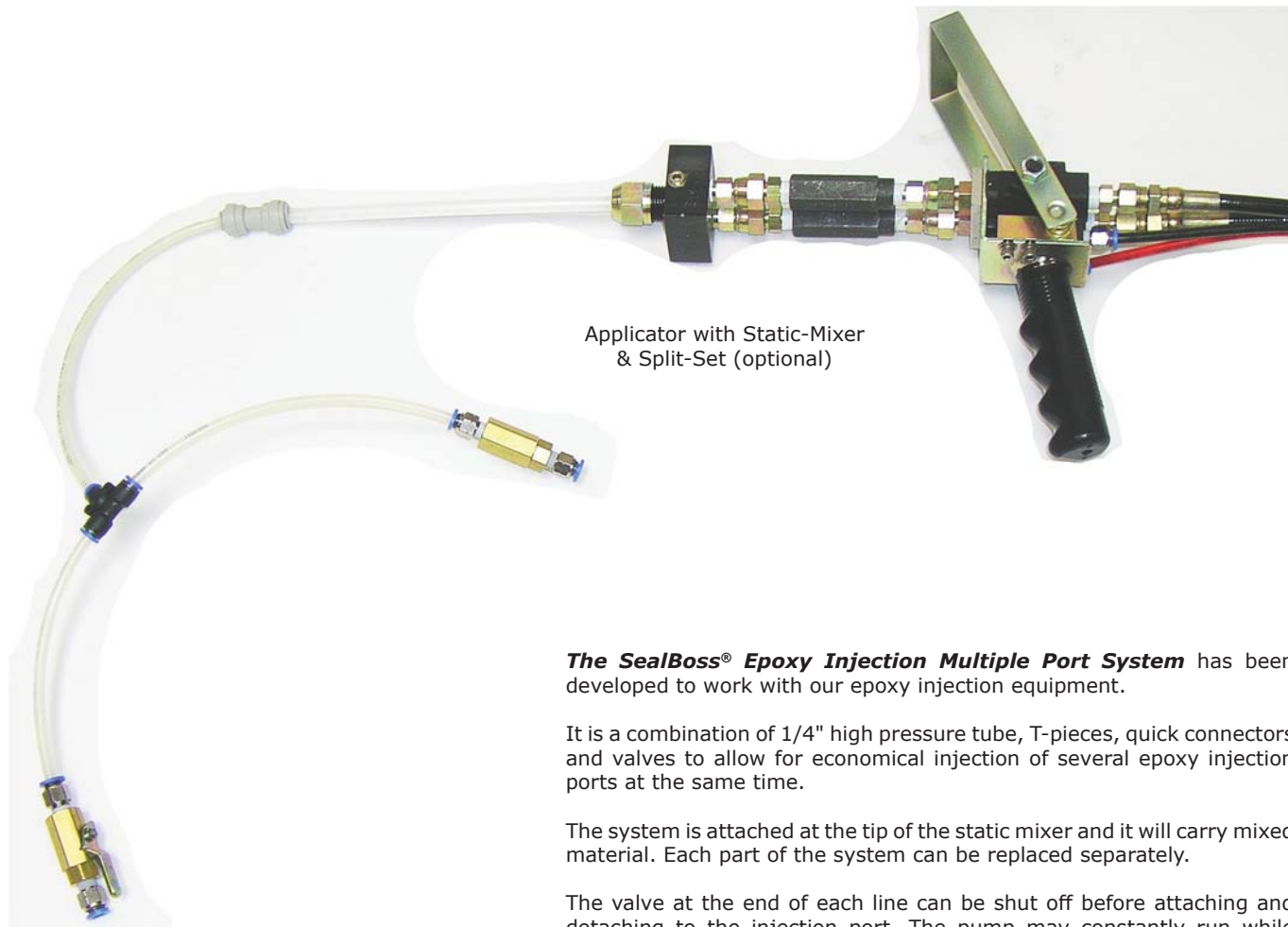
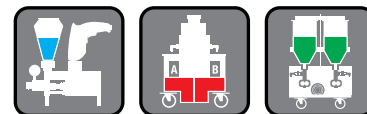


Metering Pump Specifications

Standard Ratios	1:1 or 2:1
Material Flow Rate	Approx. 0.4 GPM
Dimensions	14" x 22" x 29"
Weight	100 lb
Tank Capacities	3 1/3 gal ea
Material Viscosity	Pourable, 10-1000 cps
Outlet Pressure	15-800 psi
Air Requirements	1 CFM 40-120 psi

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Revised 201705



Applicator with Static-Mixer
& Split-Set (optional)

The SealBoss® Epoxy Injection Multiple Port System has been developed to work with our epoxy injection equipment.

It is a combination of 1/4" high pressure tube, T-pieces, quick connectors and valves to allow for economical injection of several epoxy injection ports at the same time.

The system is attached at the tip of the static mixer and it will carry mixed material. Each part of the system can be replaced separately.

The valve at the end of each line can be shut off before attaching and detaching to the injection port. The pump may constantly run while moving the grout lines from port to port thereby allowing for an almost continuous injection process without unnecessary delays.

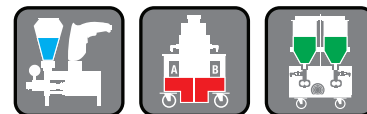


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Revised 201705

SealBoss®

P3003-2C Injection Pump



Product Data Sheet Two Component Injection Pump Manual

SealBoss® P3003-2C Injection Pump Manual

- Very affordable two component pump system
- 2:1 ratio standard, 1:1 upon request
- Can be used as 1 Component System
- Compact & Sturdy Design
- Heavy duty for daily use
- Lightweight
- > 5000 PSI
- Easy to use, clean & maintain
- Pressure gauges
- Hoppers included
- Hose Sets (mechanical packer version / static mixer version) sold separately

The **SealBoss® P3003-2C Injection Pump** features a compact and sturdy design with integrated hoppers and stand.

This lightweight and powerful injection pump can be used for dual component epoxy and/or polyurethane injection resin with viscosities between 10 and 1000 cps. Call your SealBoss® technician for details. Please specify 2:1 or 1:1 ratio. Conversion cylinders sold separately.

Suitable for mid-size jobs and daily use this is the perfect machine for epoxy and waterproofing contractors performing commercial work and residential injection. With this pump it is a snap to get in and out of basements and confined areas as found on many job sites.

This pump is of professional grade quality for every day use. The output and pressure are exceptional for a machine of this size. The modular design keeps maintenance cost low and allows for easy cleaning.

Parts can be replaced by the savvy contractor to keep downtime at an absolute minimum.

This pump is powered by an electric drill which is sold separately by SealBoss®. The drill offers a variable speed adjustment to adjust material volume and pressure.

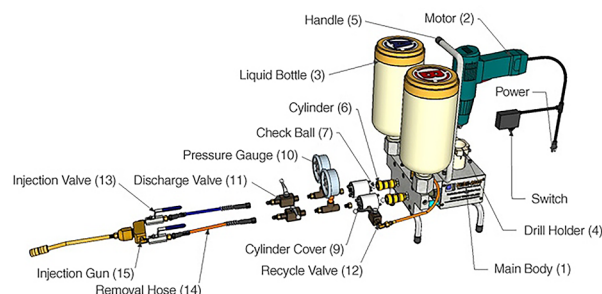
Contact your SealBoss® technician to confirm that your product can be suitable for use with this machine.

The pump can be used with our line of injection packers and ports.

Special SealBoss® applicators are available for polyurethane / mechanical packer and epoxy / two-component surface port injection can be ordered separately. Ask your SealBoss® technician for details.

North America: Standard variable speed electric drill 110V sold separately.

International Orders: Special order variable speed electric drill 220V (lead time and cost subject to availability at time of order) or voltage converter available on request. Please consult with your SealBoss® technician.



Set-up as shown for use with mechanical packers

Technical Data

Mix Ratio:	2:1 or 1:1 custom upon request
Max Pressure:	> 5000 psi
Flowrate:	30 ml to 1000 ml per min (1 quart/min)
Weight:	12 kg / 27 lbs

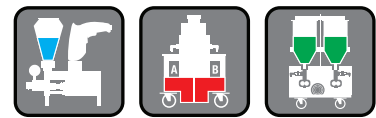
Electric Drill, adaptors/fittings and packers sold separately. Please ask your SealBoss® technician for suitable injection grouts. Viscosity range 10-1000 cps.

1:1 and 2:1 mix ratios with exchange of piston.

SealBoss® P3003-2C Injection Pump

SealBoss®

P3003-2C Injection Pump



Product Data Sheet Two Component Injection Pump Manual

Contents:

1. SealBoss® P3003-2C Injection Pump.
2. Electric Drill is sold separately, 110V or 220V (Special Order)
3. Other components vary depending on individual order

READ CAREFULLY BEFORE USING YOUR P3003-2C INJECTION PUMP

General Information:

Your pump has been tested during a trial run and pressure test to ensure highest quality control. You might find some residue of hydraulic oil in the system and some residue in the packaging. This is normal and does not impair operation.

Getting Started:

The pump is delivered ready for operation. The drill is sold separately and might not be part of the package if not specifically ordered. Proceed as follows: Screw the pressure hose into front of the pump and tighten firmly. Introduce the electronic drill to the drill holding device. Then tighten the clamping ring (Snug, but not excessively).

CAUTION!

PLEASE ENSURE THAT YOU PIERCE THE BLACK RUBBER GROMMETS AT THE TOPS OF THE PRESSURE GAUGES. THE GAUGES ARE FLUID FILLED SO TAKE CARE TO NOT TIP THE UNIT OVER FOR DOING SO WILL CAUSE SPILLAGE OF THE LIQUID IN THE GAUGES.

USE CLOCKWISE ROTATION SETTING ON DRILL ONLY! NEVER PUMP WATER! DO NOT RUN THE PUMP DRY! YOUR PUMP IS NOW READY FOR OPERATION! THIS PUMP MAY CREATE VERY HIGH INJECTION PRESSURES IN EXCESS OF 6000 PSI. EXTREMELY HIGH PRESSURES CAN CAUSE DAMAGE TO ATTACHED HOSES, VALVES ETC. AND CAN ALSO CAUSE DAMAGE IN THE STRUCTURE TO BE INJECTED. SUDDEN RUPTURES OR LEAKS IN THE DELIVERY SYSTEMS MAY BE HAZARDOUS TO YOUR HEALTH AND CAN CAUSE INJURY OR DEATH. MAKE SURE THAT THE PUMP AND ATTACHED HOSES AND FITTINGS ARE CONNECTED TIGHTLY AND ARE IN AS NEW CONDITION AT ANY GIVEN TIME DURING OPERATION. THE EQUIPMENT IS DESIGNED FOR PROFESSIONAL USE ONLY. PLEASE OBSERVE CAUTION AT ANY TIME WHEN OPERATING THIS MACHINE TO AVOID SERIOUS INJURIES.

Assembly:

1. Attach the drill making sure that it is operating in the clockwise direction. Tighten the screws on the side of the drill once the drill is confirmed to be fully engaged into the housing.
2. Screw in the hoppers to the pump. Make sure to insert the filter screen, and remove the spare parts.
3. Connect the appropriate hoses to the front of the pump. If you are using the pump for epoxy injection, you must switch the applicator to the black manifold and plastic static mixer. You will need to remove the male-male connector from the polyurethane applicator in order to connect the hoses to the epoxy applicator. Be sure that the smaller diameter hose is connected to the B-side.
4. Tighten all hose fittings with wrench.
5. Fill the A-side hopper with A-side material, and B-side hopper with B-side material.
6. Place the recirculation valve on the B-side in the closed position (perpendicular to line).
7. Open both hose valves to the open position (in line with the hose lines).

8. Plug in the drill to the shut-off switch include, and plug the shut off switch to your power source.
9. Run drill in clockwise direction. Pistons will begin to stroke.
10. You can lock the drill into 'on' position from the handle and control pressure with variable speed switch.
11. The shut-off switch will control the power to the drill. Hold the button down to provide power. You can now inject material and monitor the flow with the shut-off switch.

Operation:

Use the electric drill as supplied by us for best results. Do NOT use Drill in Hammer - Drill setting (if applicable). Use a very low speed to start the pumping process. If you are not experienced with this kind of injection pump, we suggest that you perform tests with hydraulic oil or resin without added hardener, to get used to handling of the machine. Once the desired working pressure is obtained, set the dial switch of the electronic drill so that this pressure will not be exceeded. In regular injection procedures your injection pressure should be well below the 400 bar mark. Please follow the instructions of the resin supplier carefully. Make sure that no foreign particles will enter the pump with the resin. This will help to prolong the service life of your pump.

Maintenance:

Immediately after use, clean the pump with **SealBoss® R70 Pump Flush**. This product is not harmful to seals and hoses and may be left in the system as lubrication. Solvents should only be used briefly for the initial flush to cut thicker residue. Follow all safety guidelines. Do not leave solvent in the system as it is caustic towards seals and hoses. Fill up the resin tank (2), clean the inner walls, and pump cleaner out. Repeat this several times.

Safety Instruction:

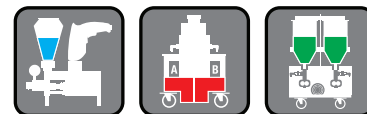
- Protection while working
- Follow product data sheets and MSDS; wear protective goggles and protective gloves.

User Guide:

1. Operate the pump on a flat surface with the hoppers securely mounted on the pump assembly.
2. Fill A and B side hoppers with chemical resin. Be sure to use correct pistons for 2:1 and 1:1 materials.
3. Open the hose valves, and cls the recirculation valve to the B side hopper.
4. Confirm adequate flow from both A&B side valves followed by connection of hose set.
5. Connect the hose assembly to the packer or surface port for polyurethane and epoxy injections respectively.
6. Be sure to set variable speed switch on low setting for epoxy injection applications. The piston speed will decrease as the pressure is lowered.
7. Fully penetrate cracks until material is observed coming through the face of the crack with adequate travel.
8. When injection work is ceased for an extended period of time, activate the recirculation feature on the B side and purge applicator assembly until only A side material is flowing.
9. When completely finished injecting, purge both lines using SealBoss® R70 Pump Flush followed by a thin motor oil for lubrication purposes.

Features:

1. 1/2 weight compared to existing injection pumps.
2. Sophisticated exterior design (Anodized surface process).
3. Generates less mechanical vibrations and noises (6) ball



bearings minimizing mechanical vibrations and noises - 1 ball bearing fitting existing injection pumps.

4. The high pressure with the maximum of 5,000 psi from the electric drill (Single non-transmission type) enables the waterstop agent to reach and patch undetected cracks. (Excessive pumping may cause disruption of the high-pressure hose). The 2-liter injection bottle provides larger storage room. Easy removal of urethane water-stop agent being made of polypropylene. The thick exterior wall of the tank prevents damages when removing foaming urethane.

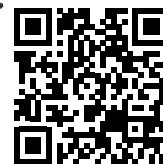
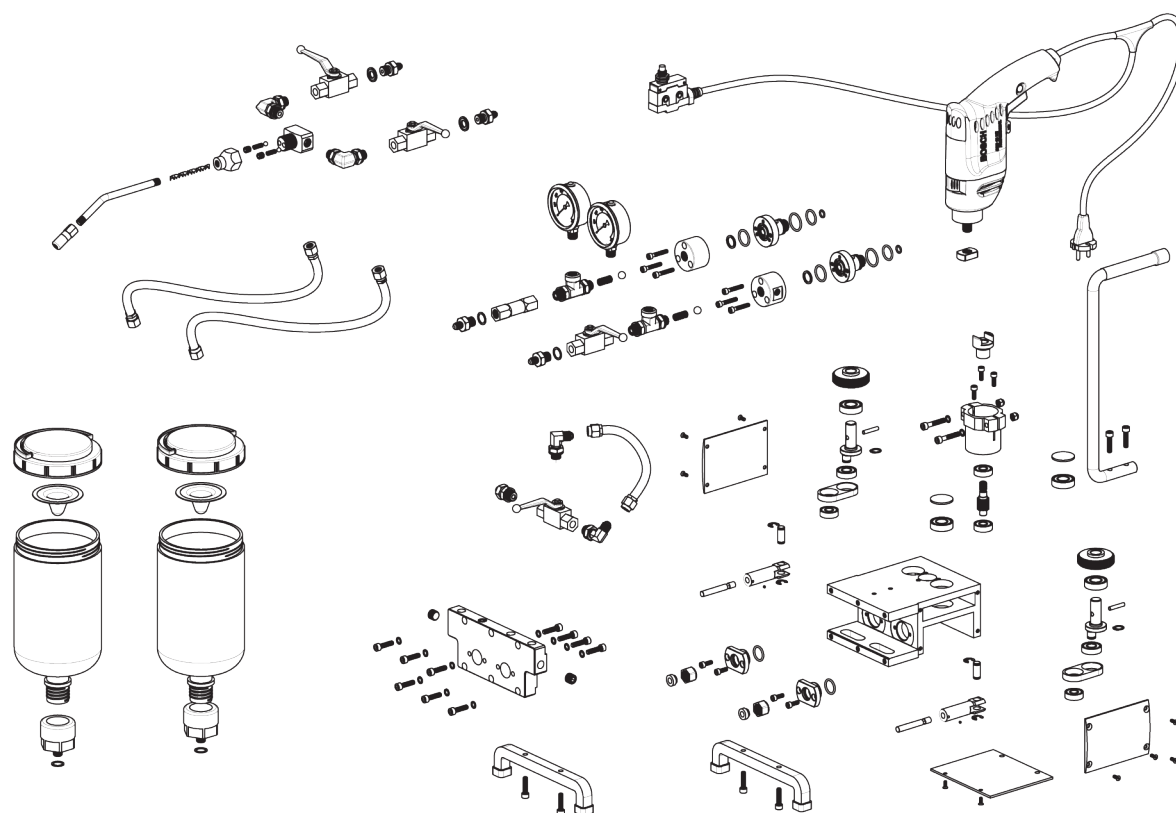
5. You can shut the lid of the injection bottle during work to prevent residues on top of the bottle.

6. Key components of the equipment are precise products. (Excluding high-pressure hose, ball bearing, packing, piston rod).

Troubleshooting:

1. When the output pressure has remarkably dropped, it may have resulted from the inflow of chemical to the joint part of the spring and the ball. (Especially when cleaning has not been followed after injection)

2. Hold the pressure gauge and turn to the left direction to eject the ball and spring. Clean the ball and the spring sufficiently for the next use.

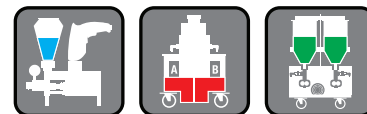


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Revised 201809

SealBoss®

P2002 Injection Pump



Product Data Sheet Electric High Pressure Injection Pump

SealBoss® P2002 Injection Pump Manual

- Easy To Use
- Easy To Clean
- Easy To Maintain
- Modular, Compact & Sturdy Design
- Single Component
- Electric Drill Operated
- Heavy Duty For Daily Use
- Pressure Gauge, Hose Set, Hopper Included
- Recommended For Beginners & Injection Pros
- > 5000 PSI Injection Pressure Possible

The **SealBoss® P2002 Injection Pump** features a very compact design with integrated stand.

This extremely lightweight and powerful injection pump can be used for most of the SealBoss® polyurethane injection line products with viscosities between 10 and 1000 cps. Call your SealBoss® technician for details. Suitable for mid-size jobs and daily use this is the perfect machine for waterproofing contractors performing commercial work and residential injection.

With this pump it is a snap to get in and out of basements and confined areas as found on many job sites. This pump is of professional grade quality for every day use. The output and pressure are exceptional for a machine of this size. The modular design keeps maintenance cost low and allows for easy cleaning.

Parts can be replaced by the savvy contractor to keep downtime at an absolute minimum.

This pump is powered by a Metabo® electric drill which is sold separately by SealBoss®. The drill offers a variable speed adjustment to adjust material volume and pressure.

North America: Standard Metabo® drill 110V sold separately.

International Orders: Special order Metabo® drill 220V (lead time and cost subject to availability at time of order) or voltage converter available on request. Please consult with your SealBoss® Technician. Contact your SealBoss® Technician to confirm that your product is suitable for use with this machine.

Technical Data:

Max pressure:	> 5000 psi
Flowrate:	~ 1 quart/min / 1l/min
Weight:	8.5 lb
Typical Product Viscosity:	50-800 cps

Recommended drill: Metabo®, call for specifications hose set included. Electric drill & packers sold separately.



Contents

1. SealBoss® P2002 Injection Pump.
2. Metabo® Electric Drill is sold separately, 110V or 220V (Special Order)
3. Wrench Set
5. Pressure Hose Set With Coupler

READ CAREFULLY BEFORE USING YOUR P2002 INJECTION MACHINE

General Information:

Your pump has been tested during a trial run and pressure test to ensure highest quality control. You might find some residue of hydraulic oil in the system and some residue in the packaging. This is normal and does not impair operation.

Getting Started:

The pump is delivered ready for operation. The drill is sold separately and might not be part of the package if not specifically ordered. Proceed as follows: Screw the pressure hose into front of the pump and tighten firmly. Introduce the electronic drill to the drill holding device. Then tighten the clamping ring (Snug, but not excessively).

CAUTION:

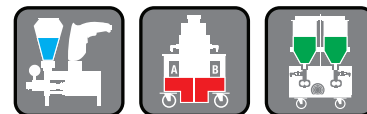
USE CLOCKWISE ROTATION SETTING ON DRILL ONLY! NEVER PUMP WATER! DO NOT RUN THE PUMP DRY! YOUR PUMP IS NOW READY FOR OPERATION! CAUTION! THIS PUMP MAY CREATE VERY HIGH INJECTION PRESSURES IN EXCESS OF 6000 PSI. EXTREMELY HIGH PRESSURES CAN CAUSE DAMAGE TO ATTACHED HOSES, VALVES ETC. AND CAN ALSO CAUSE DAMAGE IN THE STRUCTURE TO BE INJECTED. SUDDEN RUPTURES OR LEAKS IN THE DELIVERY SYSTEMS MAY BE HAZARDOUS TO YOUR HEALTH AND CAN CAUSE INJURY OR DEATH. MAKE SURE THAT THE PUMP AND ATTACHED HOSES AND FITTINGS ARE CONNECTED TIGHTLY AND ARE IN A NEW CONDITION AT ANY GIVEN TIME DURING OPERATION. THE EQUIPMENT IS DESIGNED FOR PROFESSIONAL USE ONLY. PLEASE OBSERVE CAUTION AT ANY TIME WHEN OPERATING THIS MACHINE TO AVOID SERIOUS INJURIES.

Safety Instruction:

- Protection while working
- Follow product data sheets and MSDS; wear protective goggles and protective gloves.

SealBoss®

P2002 Injection Pump



Product Data Sheet Electric High Pressure Injection Pump

Operation:

Use the Metabo® drill as supplied by us for best results. Do NOT use Drill in Hammer - Drill setting (if applicable). Use a very low speed to start the pumping process. If you are not experienced with this kind of injection pump, we suggest that you perform tests with hydraulic oil or resin without added hardener, to get used to handling of the machine. Once the desired working pressure is obtained, set the dial switch of the electronic drill so that this pressure will not be exceeded. In regular injection procedures your injection pressure should be well below the 400 bar mark. Please follow the instructions of the resin supplier carefully. Make sure that no foreign particles will enter the pump with the resin. This will help to prolong the service life of your pump.

Maintenance:

Immediately after use, clean the pump with **SealBoss® R70 Pump Flush**. This product is not harmful to seals and hoses and may be left in the system as lubrication. Solvents should only be used briefly for the initial flush to cut thicker residue - Follow all safety guidelines. Do not leave solvent in the system as it is caustic towards seals and hoses. Fill up the resin tank (2), clean the inner walls, and pump cleaner out. Repeat this several times.

1. Setup

The SealBoss® P2002 Injection Pump drill operated injection machine is straight forward to setup. The first thing to take note of is to make sure that the Metabo drill, that operates the SealBoss® P2002 Injection Pump, is turning in the clockwise direction only. Running the drill in reverse can, and will, strip gears in the gear box and render the pump non-functioning. Once the drill is ready, thread on the pump housing adapter onto the end of the drill. This will ensure a flush and secure fitting into the drill housing. Once this is confirmed to be secure, tighten the u-bolt nuts around the housing. Before mixing activated material, it is good practice to run a small bit of pump flush through the pump to make sure that the pump is developing pressure, there are no leaks, and the pump is holding pressure. A good way to do this is to make sure that the flush is flowing freely through the hose line and through the zerk coupler on the end of the hose set applicator. Once this is confirmed, shut the valve on the applicator to make sure that the pump develops pressure. Once the pump develops approximately 2000 psi, release the drill, and confirm that the pump is holding pressure for 1 minute. Once this is confirmed, open the valve, purge the line of flush, and you are ready to pump chemical injection grouts.

2. Maintenance / Cleaning Tips

DO NOT CLEAN OR TEST WITH WATER!

It is always recommended to purge the entire pump of catalyzed PU before any breaks of 30 minutes or longer. Take care to note the reaction time of the material being pumped for urgency of cleaning. You cannot leave mixed material in the pump for a longer duration than the pot life on the technical data sheet. When injection is completed, purge the hoppers and lines of all activated materials. Hydroactive polyurethanes will develop a small 'skin' of cured material on the top of the mixed batch. This can act as a barrier to the underlying mixed material from contaminants, but must be observed so as to not pump this skin through the piston. As the skin nears the filter, and while wearing safety gloves and goggles, remove the skin, discard, and refill the hopper with a fresh batch of catalyzed material. Once the pump is purged

of material, the pump must be cleaned with a solvent/pump flush procedure to remove the curing polymer followed by lubricating the seals and piston. This is done by running solvent through the pump first, and once all visible remnants of polyurethane are discarded, closing the shut off valve, once again building pressure, and then relieving this pressure with a slow open/close movement of the shut-off valve. This produces a pressurized, fluid 'rocking' flow dynamic that aids in removing the activated polymer from the side walls of the hose sets. After solvent is purged and discarded per local and job site regulation, repeat this procedure with SealBoss R70 pump flush. The pump can then be stored with R70 for future use.

AGAIN, DO NOT CLEAN OR TEST WITH WATER!

3. Losing Pressure

Loss of pressure is most commonly due to the seal sets in the piston assembly. Often this can be diagnosed by observing material or flush around the piston as it moves back and forth. This condition should be identified with pump flush prior to mixing material and filling the hoppers with mixed material. If no material is observed around the pressure, there may be build up of cured material in the ball/spring assembly below the gauge. This can easily be accessed by removing the three allen screws on the front of the gauge seat, and exposing the ball/spring. (Take note of the ball/spring order position for re-assembly). In some cases, simply cleaning these parts allows the piston to operate with more efficiency and build better pressure. If the piston is operating well, and the ball/spring is cleaned, and the pump still does not develop pressure, the last place to look is at the shut-off valve. If the pump is producing a steady flow of material, and shutting the valve does not completely stop this flow and build pressure, replace the shut off valve and applicator. All piston kits, seal sets, balls, springs, hoses, and applicators are stocked by SealBoss® for immediate repairs.

4. Obstruction in Hose

In the event the pump is not cleaned thoroughly, and corners are cut at day's end, a common consequence is cured material in the hose line. This is relatively easy to diagnose as material will not flow through the hose during pump tests. Upon disconnecting the hose set, material would then flow from the pump itself with as usual. In this case, replace the hose set.

5. Obstruction at Ball / Spring

If the hose is disconnected, and the pump does not dispense material, it is necessary to work backwards to diagnose the obstruction. The first place to look is the ball/spring assembly. As previously mentioned, this is easily done by removing the 3 allen screws on the front of the gauge seat and cleaning the ball and spring. If there is cured material in this assembly, this is a good sign that this is the obstruction. Reassemble the pump test again.

6. Obstruction in Piston Assembly

If, upon re-test, the pump still does not dispense material, the piston must be examined for cured material and sea set function. The most common repair for this pump is a piston kit replacement. If the seals are not operating correctly, the piston will simply move back and forth, with no pressure created to positively displace any material. There is a small seal set available as a spare part kit that could be tried first. If this does not produce pressure, the entire piston kit must be replaced. (Take note to count the threads visible at the back of the piston where it screws into the gear box.



The replacement piston must be set to the same depth for optimal performance. Setting a replacement piston at the wrong depth can also cause lack of pressure generation). Be sure not to tighten the piston with anything that can score the piston shaft as this will cause loss of pressure. Once the piston depth is set, reassemble the front plate of the pump, install the ball/spring, and re-assemble the gauge seat. Perform testing procedure again.

7. Obstruction in Hopper

A very simple cause to some pump issues can also be a small bit of cured material in the bottom of the hopper or in the top of the pump that feeds the piston assembly. This is a simple diagnosis by simply removing the hopper, and observing any build up of cured material in the pump. If no material is observed, proceed with other tests referenced above.

8. Pumping Pressures

The SealBoss® P2002 Injection Pump generates up to 6,000 psi. Use extreme caution when pressures build at the packer. Pressures can cause packers to blow out of the drill hole. It is good practice to note 'acceptance pressures' at each section of the substrate so that each crew and quality control professional can pass this information along to other crews and clients. The acceptance pressure is the pressure required to see observable flow of grout in a specific substrate. If pressures spike to extreme values above this pressure, stop injection, and reassess the substrate to ensure that connectivity is being achieved between the drill hole and crack/joint. Many contractors have a separate pumping apparatus for water tests to ensure that the drill holes contact the crack and to introduce water into the substrate prior to injecting hydroactive grouts.

9. Suitable Materials

The SealBoss® P2002 Injection Pump is designed to inject single component hydrophilic and hydrophobic polyurethane grouts. Dual component epoxy resins have also been used with this machine if pot life allows for the application and cleaning procedures. SealBoss® does not recommend dual component material through the SealBoss® P2002 Injection Pump. The only 2-component system recommended is a catalyzed polyurethane in which water introduction is required for reaction initiation. The SealBoss® P2002 Injection Pump is a piston pump that creates a pulsing motion as the piston pumps. For pressurized systems, such as chemical injection, this is ideal. The pulsation created by the piston would not be suitable for gravity filling of joints. The SealBoss® P2002 Injection Pump applicator connects to a standard zerk fitting and can be fitted to couple to a button head fitting. Button head fittings and couplers sold separately.

10. Storage

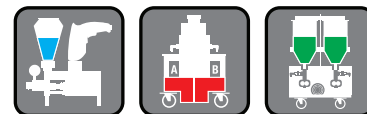
Storage of the pump is to be in a climate-controlled warehouse. Best storage is with SealBoss® R70 Pump Flush, following adequate and thorough cleaning procedure referenced above, or with low viscosity motor oil. When pump is stored for long durations, it is always recommended to perform the maintenance and performance tests about a week prior to application to ensure optimal performance and to allow for the procurement of replacement parts as needed. Please keep in mind that, while SealBoss does stock many of the parts for the SealBoss® P2002 Injection Pump, some parts are special order and will have lead times. The SealBoss® P2002 Injection Pump is a versatile, high pressure, light weight, and compact chemical injection pump sure to provide efficiency for any injection contractor. The straight forward design provides minimal waste operation while providing the applicator with the ability to perform on-site maintenance

procedures with ease.

P2002 Piston Replacement Procedure

1. Remove the 3 allen screws from the front of the gauge seat. Note the order of ball/spring when removing the gauge seat for reassembly. Ball faces piston.
2. Clean ball/spring chamber – confirm no PU build up.
3. Remove 4 allen screws on front plate of the pump (front plate also seats the hopper threading).
4. Note the length of screws removed from the face plate – 2 are long, and 2 are shorter.
5. Remove set screw from side of the front plate to release the piston (the entire front plate can now be pulled off).
6. Loosen the brass locking nut at the base of the piston shaft.
7. Unscrew piston from the pump. The entire piston assembly can now be removed.
8. Screw / attach the new piston kit (be sure to set piston depth at 1.5 threads showing. Accuracy of piston depth is very important!
9. Tighten brass locking nut once again.
10. Be sure to orient piston assembly to have material flow chamber facing the hopper and recessed hole for set screw facing the correct side.
11. Reassemble the front plate, allen screws, and ball/spring assembly.
12. Pressure test the pump with SealBoss® R70 Pump Flush prior to filling with PU.

P2002 Injection Pump

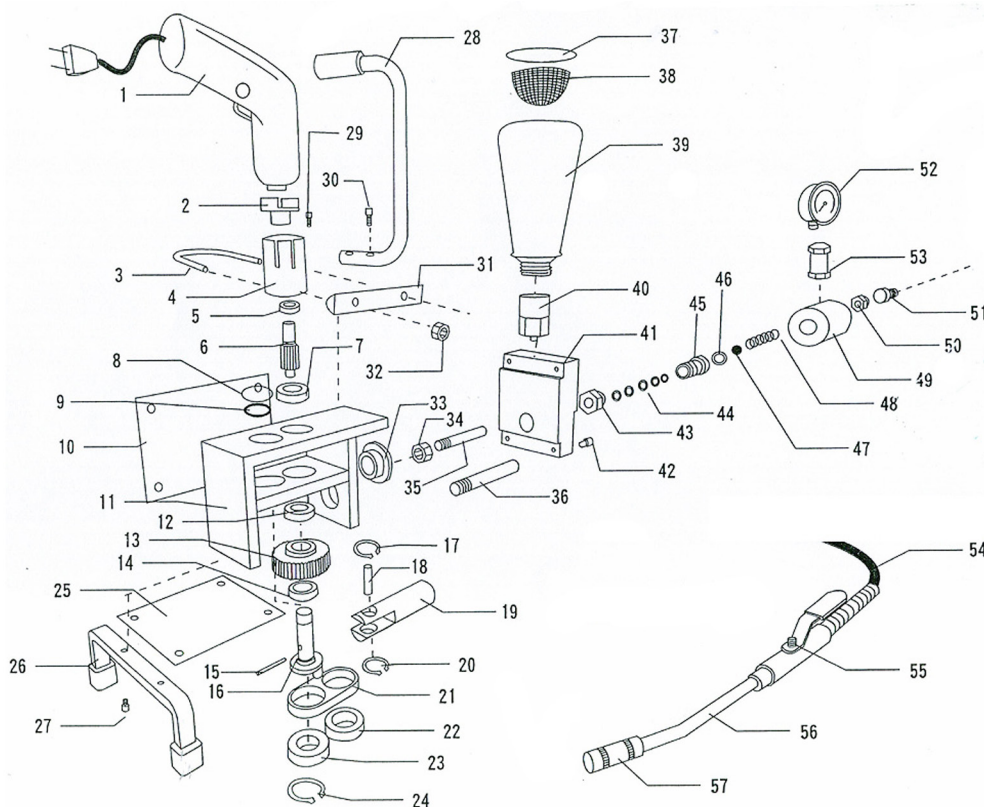


Product Data Sheet

Electric High Pressure Injection Pump

Parts List

1 IMPACT DRILL	16 ECCENTRIC SHAFT	33 BUSH	50 NUT
2 PITMAN SHAFT	17 "C" TYPE SNAP RING	34 SHANK NUT	51 COMPRESS SCREW
3 "U" CLAMP	18 JUNCTION PANEL SHAFT	35 PISTON SHANK	52 PRESSURE GAUGE
4 SLEEVES	19 GUIDE BAR	36 PRESSURE SLEEN NUT	53 DIAPHRAGM PRESSURE GAUGE SEAT
5 #6000 BEARING	20. "C" TYPE SNAP RING	37 METAL LID	54 HIGH PRESSURE HOSE
6 PINION	21 JUNCTION PANEL	38 FILTER BOWL	55 AIR VALVE
7 BEARING	22 #608 BEARING	39 PLASTIC CONTAINER	56 BEND SPOUT
8 HUBCAP	23 #6000 BEARING	40 ADAPTER	57 COUPLER
9 "C" TYPE SNAP	24 "C" TYPE SNAP RING	41 BUSH BLOCK	
10 LATERAL HOUSING	25 LOWER HOUSING	42 SOCKET SCREW M5 x 25 MM	
11 BODY	26 LEGS	43 CLAMPING BAR	
12 BEARING	27 SOCKET SCREW M5 x 25MM	44 O. RING	
13 GEARS	28 HANDLE BAR	45 PRESSURE FEED BODY	
14 BEARING	29 SOCKET SCREW M5x 12MM	46 BRASS PACKING	
15 PIN	30 SOCKET SCREW M5 x 25MM	47 STEEL BALL	
	31 CLAMPING BAR	48 SPRING	
	32 5/16" UNC NUT	49 PRESSURE SLEEVES	



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Revised 201705

SealBoss®

IP495 Injection Pump



Product Data Sheet

Injection System
Professional Grade Electric Piston Pump

SealBoss® IP495 Injection Pump

- Pressure Controlled
- Pressure Preadjust Knob
- Automatic Shut-Off
- Single Component
- 3000 PSI, 210 BAR
- Piston System
- Suction Tube
- Mounted on Stand
- Reliable, Easy to Use, Easy to Clean
- Connects to a Wide Range of Packers
- Works with Many Materials

The **Sealboss® IP495 Injection Pump** is a lightweight and powerful injection pump, customized and modified by SealBoss® and can be used for most of the SealBoss® polyurethane and epoxy injection line products with viscosities between 10 and 800 cps. Call your SealBoss® technician for details.

This stand mounted piston pump system features suction tube material pick-up and will connect to the separately sold **SealBoss® High Pressure Hose Set** including shut-off valve and coupler for safe and easy connection to our packer system.

Equipped with pressure gauge and a large control button for injection pressure adjustments, the pump automatically shuts-off when the desired pressure is reached and restarts pumping when the pressure drops. This feature speeds up the injection process, keeps noise levels at a minimum and prolongs the life of the motor and mechanical parts.

Recommended use: Small to large injection jobs, frequent injection jobs.

Technical Data

System:	Displacement Pump
Max Pressure:	3000 psi
Weight:	34 lb, 15.4 kg
Power:	0.75 HP DC Motor, 120 VAC, 60 HZ, 15A
Delivery:	~0.5 gpm, ~1.9 l/min
Max Hose Length:	~330 ft (100 m)



Hose extension with valve and packers sold separately

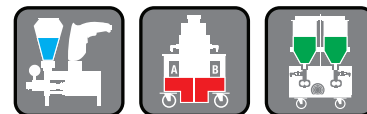


Ask for our "Starter Kit" Option

SealBoss® IP495 Injection Pump

SealBoss®

IP495 Injection Pump

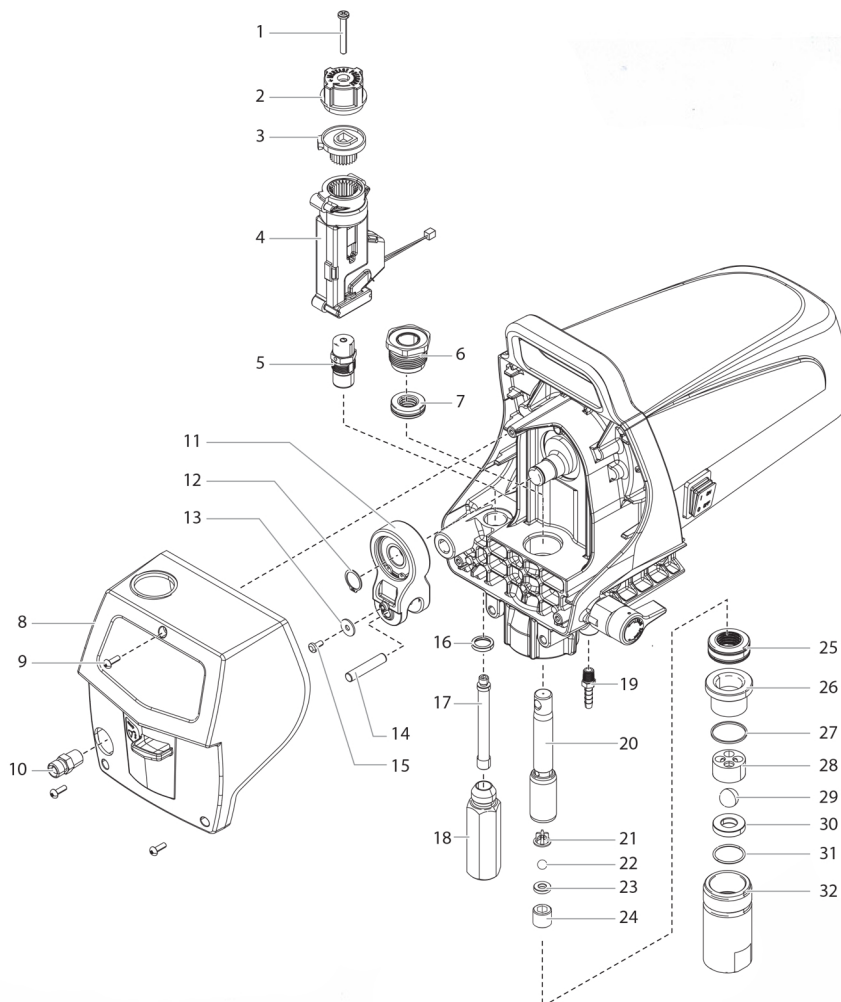


Product Data Sheet

Injection System
Professional Grade Electric Piston Pump

Parts List

1. Screw
2. Pressure Control Knob
3. Pressure Control Knob Bottom
4. Pressure Switch
5. Transducer Assembly
6. Upper Bushing
7. Upper Packing
8. Front Cover
9. Screw (3)
10. Outlet Fitting
11. Yoke Assembly
12. Retainer Ring
13. Washer
14. Dowel Pin
15. Screw
16. Seal
17. Filter Assembly
18. Filter Housing
19. Return Tube Fitting
20. Piston Assembly (Items 20-24)
21. Upper Cage
22. Outlet Valve Ball
23. Outlet Valve Seat
24. Outlet Valve Retainer
25. Lower Packing
26. Bushing
27. Inlet Valve Cage
28. Inlet Valve Seal
29. Inlet Valve Ball
30. Inlet Valve Seat
31. O-Ring, PTFE
32. Inlet Valve Housing



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Revised 201705



SealBoss® HP100 Hand Pump

- Every Day Use
- Lightweight
- Injection Pressure > 1500 PSI
- Easy to use, clean & maintain for long term use
- Single component
- Pressure gauge
- Mounted on stand, draws material from container or bucket
- Compatible with most SealBoss® injection grouts including epoxy resins, packers and couplers



Hose set sold separately

Technical Data

Max pressure:	>1500 psi
Weight:	25 lbs
Single component:	steel ball valve, one o-ring

The SealBoss® HP100 Pump is a powerful and versatile injection hand pump for the complete line of our injection grouts. Suitable for smaller jobs and as an inexpensive back-up system. Very reliable and easy to maintain.

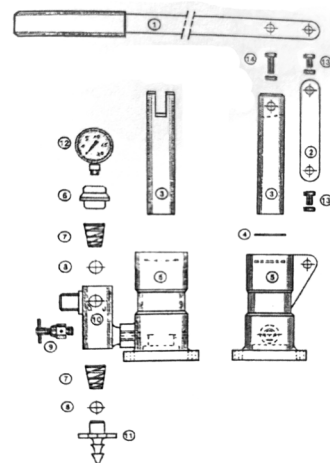
Pump includes stand & pressure gauge. Pressure hose, shut-off valve and zerk coupler tip sold separately. Just place premixed resin next to pump or underneath and point suction tube into grout container. Piston can be pulled out for effective cleaning. Features a very compact design with integrated stand.

Parts can be replaced by the savvy contractor to keep downtime at an absolute minimum.

This injection pump can be used for most of the SealBoss® polyurethane and epoxy injection line products with viscosities between 10 and 1000 cps. Contact your SealBoss® technician to confirm that your product is suitable for use with this machine.

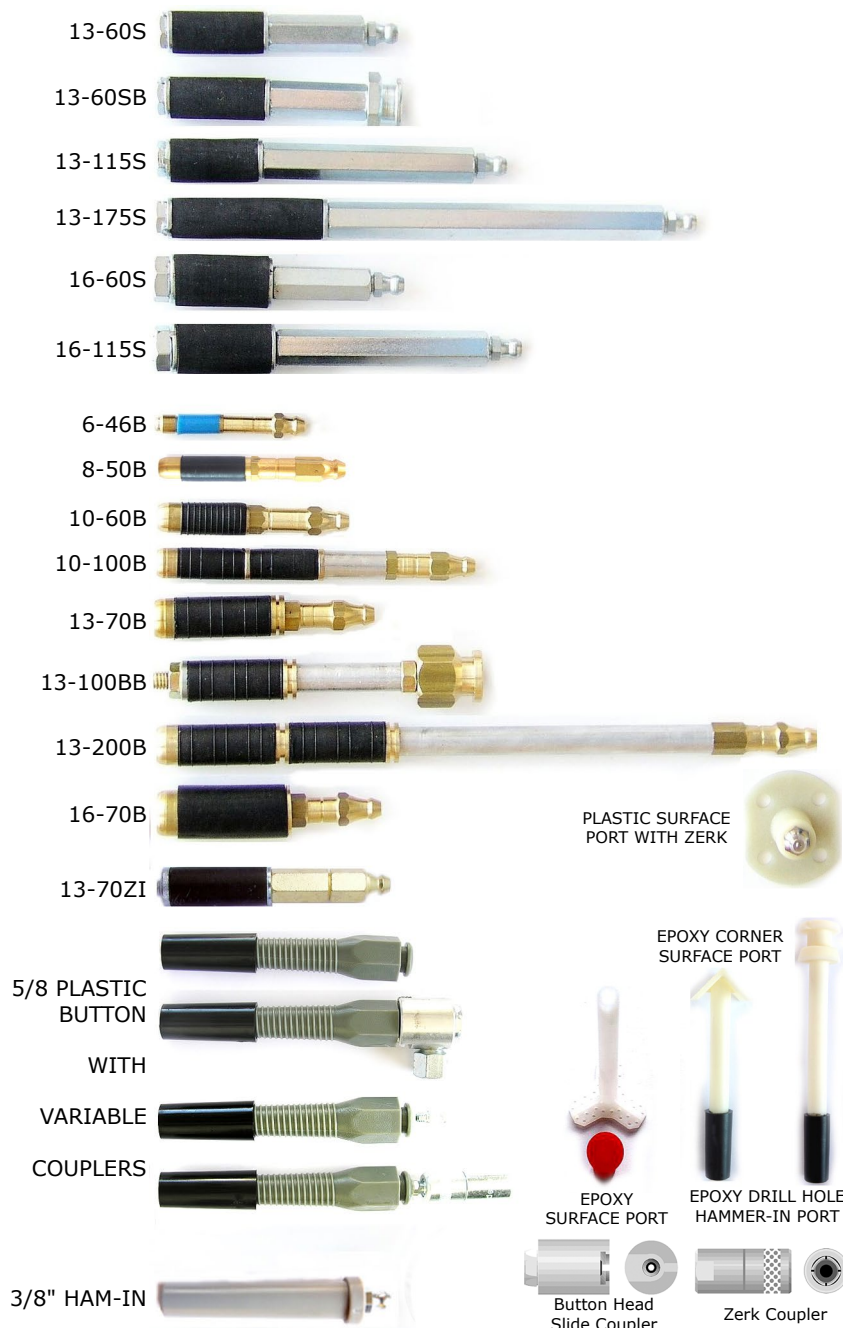
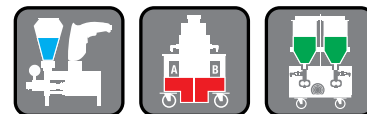
Parts List

1. Pump Lever
2. Short Lever
3. Piston
4. Piston O-Ring
5. Housing
6. Gauge Connector
7. Spring (2)
8. Ball (2)
9. Vent Valve
10. In-Out Valve Housing
11. Valve / Suction Hose Connector
12. Gauge
13. Lever Bolt Short (2)
14. Lever Bolt Long



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Revised 201705



Professional Packer & Injection Accessories

Code	Size	
S-TYPE		
13-60S	1/2x3 in	13x70 mm
16-60S	5/8x3 in	16x70 mm
13-115S	1/2x4 in	13x100 mm
13-175S	1/2x6 in	13x150 mm
16-115S	5/8x4 in	16x100 mm
B-TYPE		
13-70B	1/2x3 in	13x70 mm
16-70B	5/8x3 in	16x70 mm
10-60B	3/8x2.5 in	10x60 mm
8-50B	5/16x2 in	8x50 mm
6-46B	1/4x1.8 in	6x46 mm
13-100B	1/2x4 in	13x100 mm
16-100B	5/8x4 in	16x100 mm
13-150B	1/2x6 in	13x150 mm
16-150B	5/8x6 in	8x150 mm
13-200B	1/2x8 in	13x200 mm
16-200B	5/8x8 in	8x200 mm
ZINC-TYPE		
13-70ZI	1/2x3 in	13x70 mm
PLASTIC BUTTON-TYPE		
5/8BPB	5/8x4 in	16x100 mm
HAMMER-IN PLASTIC PACKERS		
HAM3/8	3/8x3 in	10x70 mm
SURFACE EPOXY PORTS		
SPCORNER	1/4 in	10 mm
HAM1/2-EP	1/2 in	Hole: 13 mm Port: 10 mm
SPEPTRI	1/4 in	10 mm



13-100AL



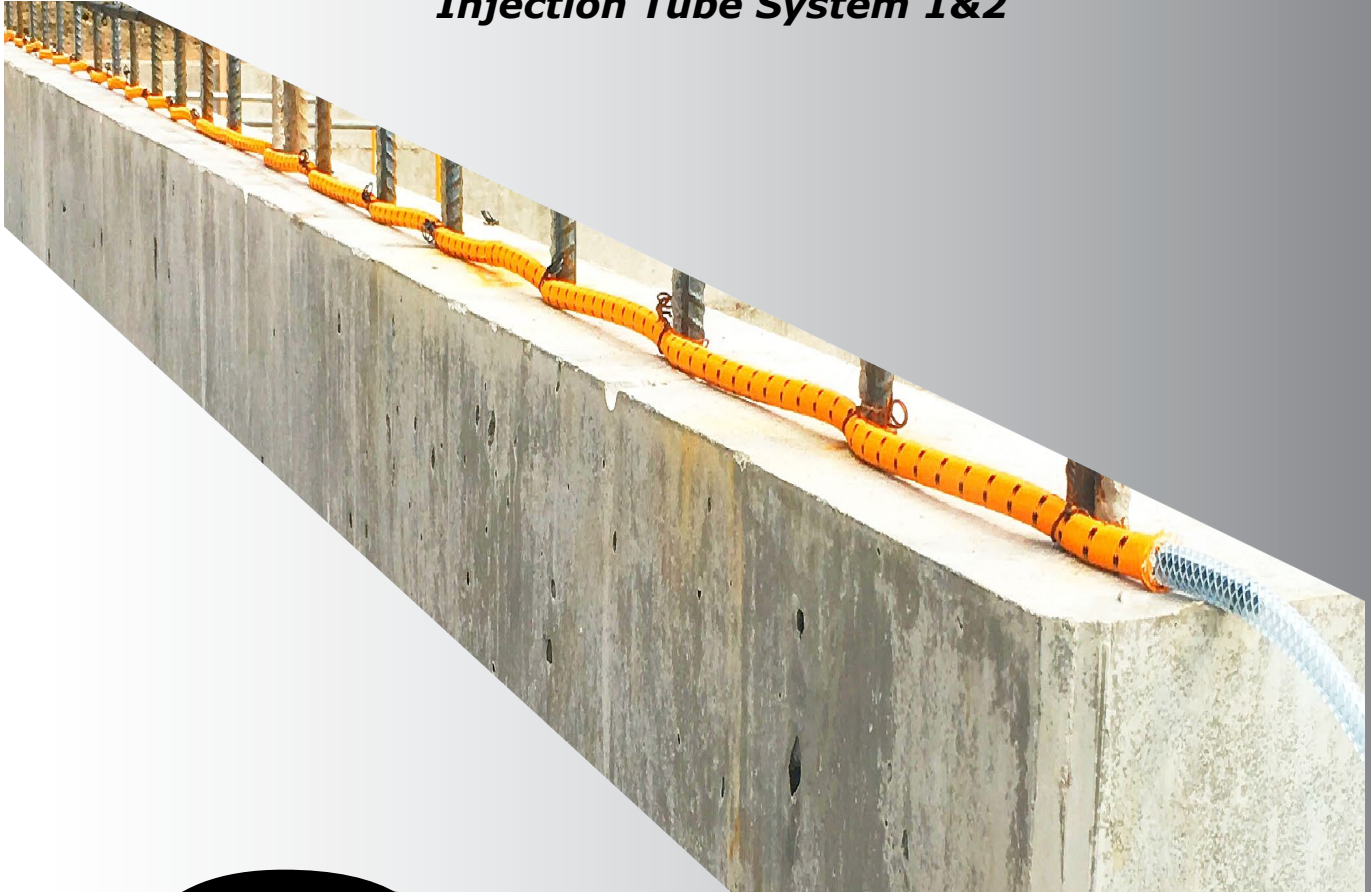
Heavy Duty Drill Bits

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Revised 201804

SB InjectTube

Injection Tube System 1&2



SealBoss® ***Injection Tube System***



Advantages

- Waterproofing of cold joints
- Injection of resin when leakage occurs or as preventive measure after total curing of the concrete
- Injection of joints in different sections possible
- Easy installation with no damage to the concrete
- Re-injectable & double hose abilities
- Competitively priced
- Very flexible tube system
- Composed of durable materials
- Free of metal
- Re-Injectable*

SB InjectTube 1 (1 Membrane)

The SealBoss® InjectTube 1 for all SealBoss injection foams, gels and resins. Equipped with perforated PVC inner tube with holes, constructed to withstand pressures of freshly placed concrete. Covered by one woven membrane to protect the inner tube from the entry of cement particles (filter, membrane one) and abrasive effects of the concrete aggregates (protector, membrane two).

SB InjectTube 2 (2 Membranes)

The SealBoss® InjectTube 2 for all SealBoss injection foams, gels and resins. Equipped with perforated PVC inner tube with holes, constructed to withstand pressures of freshly placed concrete. Covered by two woven membranes to protect the inner tube from the entry of cement particles (filter, membrane one) and abrasive effects of the concrete aggregates (protector, membrane two).

*Re-Injection

The SealBoss® InjectTubes offer re-injection capability when used with an acrylate gel such as SealBoss® 2400. The acrylate gel properties permit the tube to be flushed with simple clean water after injection as long as the product has not cured. SealBoss® InjectTube 1 is favoured if re-injection is desired as the tube has one membrane. When done correctly, the initial injection of the tube should be sufficient and should not require re-injection. Re-injection and use of acrylate gels with injection tube are only recommended in certain specific applications and should be backed by a qualified engineer/specifier.

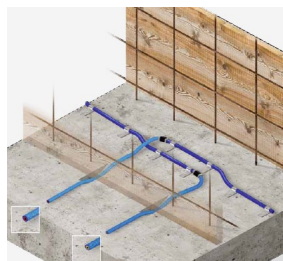
Applications

The SealBoss® Injection Tube System is designed for use in concrete structures which contain joints where a hydrostatic load on the face of the structure is expected. After injection it reliably prevents water seepage through concrete joints in structures such as parking garages, stadiums, subways, tunnels, swimming pools, water reservoirs, locks, canals, dams, sewage treatment plants, water tanks and others.

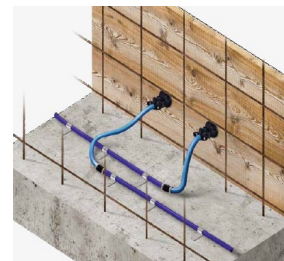
Introduction

The SealBoss® Injection Tube System is an efficient and easy to install system to create water tight cold joints.

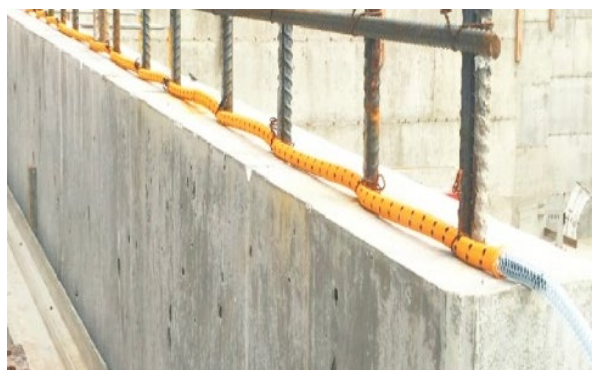
A well-known characteristic of concrete is shrinkage while curing. Stress caused during this time and temperature changes provoke the development of small cracks and fissures. Several design and reinforcement techniques help to control this effect, but cannot control them completely. Fine cracks of sometimes less than 0.1 mm are inevitable. These cracks are considered normal and generally do not cause any problems. However,



InjectTube 1
using Inject Sleeve



InjectTube 1
using Inject Nail Packer



InjectTube 2 using Inject Sleeve

at cold joints, the tendency to form larger cracks cannot be reduced. Since old and new concrete do not bond together homogeneously and do not form a monolithic concrete body, stress cracks concentrate mainly in these areas. They easily conduct water and may cause severe damage.

The SealBoss® Injection Tube System for sealing cold joints utilizes the natural tendency of concrete to form cracks. A special tube system is installed at the joint where leaks are most likely to occur. The system allows resin injection directly into the joint through a protected porous tube after completion of the structure. The resin penetrates through the perforation of the tube and fills the cracks and voids of the cold joint area thereby sealing the structure.

To be effective, the system must have certain properties. The tube must be sturdy enough to withstand the high pressure of placed concrete and it must resist concrete slurry penetration. On the other hand the injection resin must be able to penetrate the hose at a moderate injection pressure. The installation and injection process must be suitable for construction sites. The SealBoss® Inject Tube System is designed to meet these requirements.

Before pouring the new concrete the tube shall be attached to the existing surface as tight as possible and usually towards the middle of the future cold joint using suitable clips or by attaching it to the existing rebars. It is crucial that the hose is tightly fixed in the center of the joint area so that it can neither move nor lift during the concrete placement. Six to twelve inches between clips are typically recommended. The hose must be placed in a manner that it will not touch the outside surface of the structure at any point. To allow sufficient injection pressures, the maximum length of injection tube should not exceed 30 feet.



Inject Sleeves have to be attached to both ends of the Inject Tube prior to installation. The Inject Sleeves are solid and cannot be penetrated by the resin. Two thirds of the sleeves must be poured into the concrete to allow a successful injection procedure. The injection screws attach to the sleeves prior to injection. For detailed information, please refer to our product data sheet.

The concrete should set for as long as necessary to allow shrinkage. Polyurethane grout is then injected by attaching a packer and pumping grout into the tube. Electrical or hand pumps may be used for the resin injection. To ensure that the tube is filled, resin shall be pumped until it emerges from the other end of the hose at the packer, which is then plugged with a zerk fitting. The resin shall be pumped slowly and steadily. High pressure forces the resin out of the hose and into the fine cracks and voids. Injection shall be continued until resin emerges from the joint. Typically the applied pressure should not exceed 1500 psi. It is recommended to make several injections while the resin is still workable. The typical working time is 20 minutes at 68°F. The concrete temperature and presence of water will effect this time. The cured product will permanently seal against penetrating water.

When used appropriately, the SealBoss® Injection Tube System is the most convenient and effective way to seal construction joints. The non-invasive application through the pre-installed system minimizes the risk of damage. Compared to the injection method through mechanical packers that have to be installed by drilling holes into the concrete, the System reduces the amount of labor and material drastically.

Some inject tubes may be re-injected under certain limited conditions. Please contact our technical support staff for further information.

Assembly

Cut the Inject Tube to required length (maximum 30 feet). In order to prepare the tube for resin injection at a later date, each section must have one PVC Inject Sleeve attached to each end. PVC Inject Sleeves are installed by pulling the end with the larger diameter as far as possible over each end of the Inject Tube. Inject Screws with zerk fittings can be attached to the sleeves now or at a later time prior to injection by screwing them clockwise into the sleeve opening. Proper length of tube is now ready for installation.

Installation

The Injection Tube, with the adapted end sleeves, is to be fastened directly to the concrete surface or to existing rebar in a fashion that the tube has continuous contact with the surface. Sweep concrete to remove any material that may interfere with direct contact between the Tube and the surface. Position the Tube as required and use clips or rebar and wire to keep the Tube in place. Clips may be nailed or glued with epoxy a maximum of 12" apart or as necessary to maintain consistent contact of the Tube with the concrete. Tension on the Tube must be sufficient as not to allow Tube to shift during concrete pour. Note: Continuous contact between Inject Tube and surface is essential for the system to work. Thorough preparation is the key to successful results.

If continuous lengths of cold joint are in excess of 30 feet (10 meters), two or more sections of Inject Tube have to be installed. Adjacent Injection Tube segments shall overlap 12 inches in tight contact to ensure continuous resin injection.

PVC Inject Sleeves shall be bent in a ninety degree angle before exiting the face of the concrete. The black colored connection piece must be embedded a minimum of 2" inside concrete face to allow high injection pressures without any failure to the connection. End piece shall protrude past concrete face 1" - 3" to allow access for future resin injection. After stripping forms, PVC Inject Sleeves must remain clearly visible in order not to complicate or prohibit injection.

Injection

Inject Screws shall be attached to the Inject sleeves prior to injection. The quick release zerk coupler allows for easy connection to the pressure grout line. The injection with polyurethane grout shall be done after the concrete is cured and all the cold joints are set. Injection pressures may range between 10 to 1000 psi.

In case of water infiltration into the tube it might be useful to leave the distant end open for drainage purposes. Grout shall be injected under low pressure until it leaks out from the distant end of the tube thereby replacing the water. Immediately the opening should be closed with an Inject Screw and the injection process should continue. It is desired to see material penetrating from the cold joint as the injecting process progresses. Continued penetration of material from the injection end of the tube to the far end is a good indicator for complete injection but will not always be achieved. Reason may be extremely tight sections in the cold joint or sections of materials adhesion where resins cannot penetrate. In any case material consumption and injection pressures should be closely monitored as an indicator for material flow, injection progress and injection success.

The material to be injected can be of foaming and non-foaming nature. Foaming materials should not foam too fast to allow for full penetration through the tube and cold joint. The amount of accelerator added should be determined prior to any injection attempts. Most cold joints show minimal seepage and a fast setting foam may not be advised! Good results have also been achieved with non-foaming flexible LV resins.

Consumption of injection grout is determined by two factors. One: product consumption to fill the tube. This amount is very low at a rate of approximately one quart of material per 150 feet of tube. Two: Consumption to seal cold joint / joint. Thickness of the structure and joint width determine the amount of product needed. Altogether the total consumption of product in inject tube injection is similar to grout use by injection with packers.

Please do not hesitate to call your SealBoss® technical support line for help with the choice of the right material or any questions you might have with the installation of the SealBoss® Injection Tube System.



INJECT SCREW



Nail Packer



Part 1: General

1.01 Scope

Under this section the Contractor shall furnish and install permeable grout tubes where required to prevent leakage through construction joint.

1.02 Work Included

Cleaning concrete surface.

Installation of permeable grout tubes.

Injection of permeable grout tubes with sealing materials.

1.03 Product Data

Submit product data in accordance with Section 03151.

Comply with instructions for storage, shelf life and handling.

Part 2: Products

2.01 Permeable Grout Tubes

Shall be composed of a perforated inner PVC tube, inner filter membrane and an outer protective synthetic membrane or a precision pre-cut PVC tube. The tube shall be permeable for the injected sealing materials and impermeable for cement particles. The tubes shall be equal to Inject Tube System 2000 by SealBoss® Corp.

All materials shall be delivered to the site in undamaged, unopened containers bearing the original labels.

2.02 The Sealing Materials

A. General

The sealing materials shall be an MDI based, solvent-free, hydrophobic polyurethane grout with accelerator system. All materials shall be delivered to the site in undamaged, unopened containers bearing the manufacturer's original labels.

B. Polyurethane Grout & Accelerator

The polyurethane grout shall have the ability to react with water and to expand in volume. The accelerator shall be able to control the reaction time from one minute to one hour. After reaction, the polyurethane grout shall form a flexible closed cell polyurethane foam.

C. Mixing & Handling

Mixing and handling of the chemical grout and the accelerator, which are non-toxic and non-hazardous under normal conditions, shall be in accordance with the recommendations of the manufacturer and all applicable safety codes and shall be performed in such a manner as to minimize hazard to personnel. It is the responsibility of the contractor to provide appropriate protective measures to insure that chemicals or foam produced by said chemicals are under the control of the contractor at all times. Plastic or metal mixing tanks shall be used. Tanks of concrete or wood should not be used.

D. Pumps

Hand operated, air driven, electrical positive displacement and airless pumps can be used. Pressures of 500 to 1500 psi may be adequate.

Part 3: Execution

The permeable grout tubes are required at all formed joints in concrete walls and slabs which separate habitable spaces, machinery and equipment areas from ground water or from water filled tanks, basins, flumes, manholes, etc. It shall also be placed in vertical joints in tank walls and in other joints as shown on the drawings.

3.01 Preparation

Clean concrete surface of dirt, laitance, corrosion, or other contamination prior to installation of the tubes to insure direct contact of tube with concrete surface.

3.02 Installation of Permeable Grout Tube

Tube shall be wired to reinforcing steel on concrete surface (approx. each 10-12 inches).

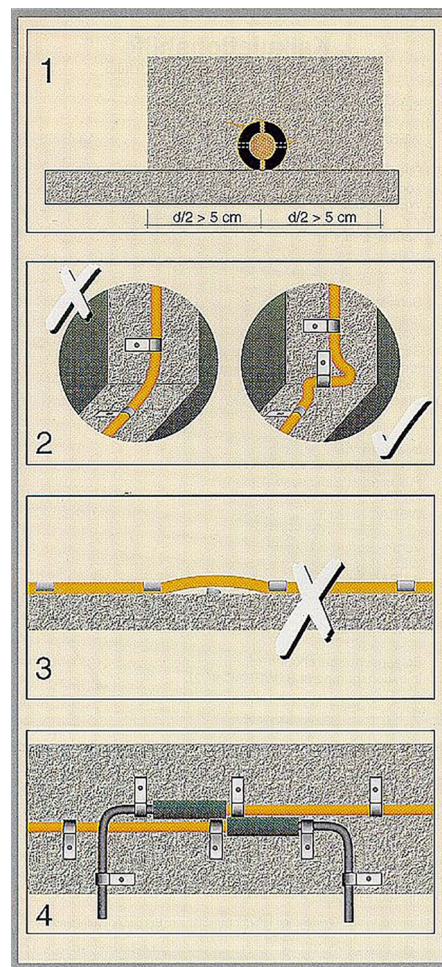
The PVC tube endings will be bent so that they will protrude through or under the form.

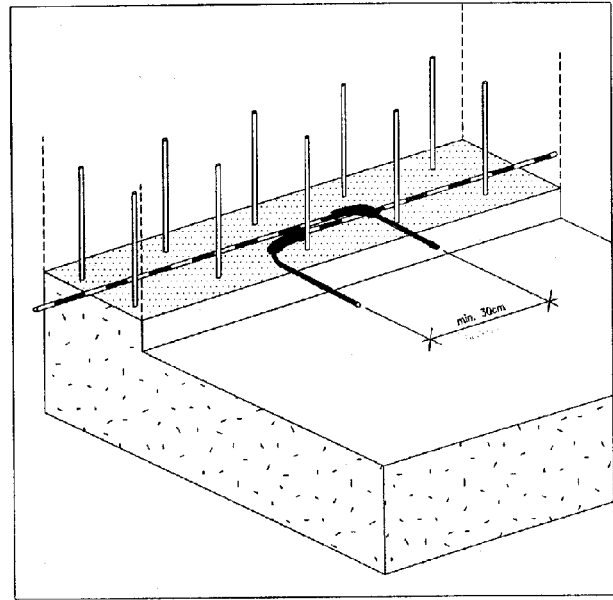
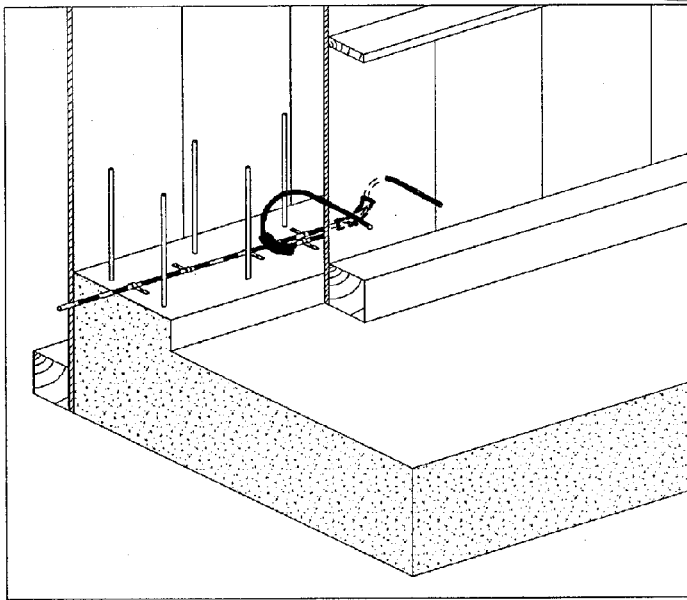
Each end of the tube shall cross the next one so that there will be no default in the injected zone.

3.03 Injection of Sealing Materials

After the concrete has cured for _xx_ days the grout tubes shall be injected with a sealing material to fill cold joint and honeycombs.

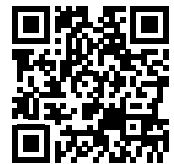
Start injection at one end of the grout tube. As soon as sealing material appears at other end, close this other end with inject screw and increase pump pressure. Stop injection when sealing material percolates out of cold joint. Patch injection ports with cementitious mortar.





SB-InjectTube 2

SB-InjectTube 1



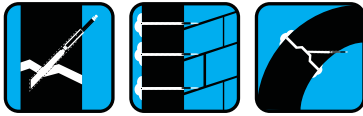
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Revised 201801



SealBoss®
Concrete Solutions

Specific contact information available upon request



Waterstop Injection Systems

Location	Client	SealBoss® Solution
Washington, DC, USA	Department of Energy	Leak Sealing
San Clemente, CA USA	San Onofre Nuclear Station	Leak Sealing
La Verne, CA USA	Metropolitan Water District	Water Infrastructure Leak Sealing
Santo Domingo, DO	Opret	Metro Tunnel Injection
Ventura, CA USA	Ventura County Public Works	Culvert & Pipe Leak Sealing
Centralia, CA USA	City of Centralia	Wastewater Leak Sealing
Delhi, India	Delhi Airport Metro	Tunnel Leak Sealing
Haryana, India	Abir Infrastructure	Hydroelectric Malana Dam Crack Repair
Queensland, Australia	Curragh Coal Mine	Coal Basin Leak Sealing
Cairo, Egypt	Arabian Contractors Co.	Tunnel Leak Sealing
Alexandria, Egypt	GASCO	Vault Leak Sealing
Jeddah, Saudi Arabia	Saudi Bnladin Group	Tunnel & Bridge Leak Sealing



Structural Epoxy Repair Systems

Location	Client	SealBoss® Solution
Christchurch, NZ	Christchurch Casino	Earthquake Repair
Nouakchott, MR	Nouakchott International Airport	Runway Doweling
Washington, USA	Washington State DOT	Bridge Crack Repair
California, USA	CALTRANS	Bridge Crack Repair



QuickFix Floor Repair & Coatings

Location	Client	SealBoss® Solution
United Kingdom	ALDI Distribution Centre	Floor Crack & Spall Repair
Queensland, Australia	Carragh Coal Mine	Coal Basin Joint Filling
Fresno, CA USA	Campos Brothers Farms	Processing Facility Joints
Seoul, South Korea	Hyundai	Facility Floor Repair
Seoul, South Korea	Daewoo	Facility Floor Repair



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Revised 201705

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THIS DOCUMENT, IF DEEMED AN ACCEPTANCE OF YOUR OFFER, IS EXPRESSLY MADE CONDITIONAL ON ASSENT TO ALL OF THE TERMS OF THIS DOCUMENT, INCLUDING ADDITIONAL AND DIFFERENT TERMS. IF THIS DOCUMENT IS DEEMED AN OFFER OR A COUNTEROFFER, ACCEPTANCE IS EXPRESSLY LIMITED TO THE TERMS OF THIS DOCUMENT. YOUR SIGNATURE ON THIS DOCUMENT OR YOUR ACCEPTANCE OF GOODS SOLD PURSUANT TO THIS DOCUMENT SHALL BE AN AFFECTIVE ACCEPTANCE OF OUR OFFER. ANY PROPOSAL FOR ADDITIONAL OR DIFFERENT TERMS, OR ANY ATTEMPT BY YOU TO ALTER ANY OF THE TERMS OF THIS DOCUMENT SHALL NOT OPERATE AS A REJECTION OF THIS OFFER AND THIS OFFER SHALL BE DEEMED ACCEPTED BY YOU WITHOUT YOUR ADDITIONAL OR DIFFERENT TERMS. WE HEREBY NOTIFY YOU OF OUR OBJECTION TO ANY TERMS OR CONDITIONS IN ANY OF YOUR DOCUMENTS OR OTHER COMMUNICATIONS CONVEYED BY YOU WHICH TERMS OR CONDITIONS ARE ADDITIONAL TO, DIFFERENT FROM, OR IN CONFLICT WITH THE TERMS OF THIS DOCUMENT.

1. ENTIRE AGREEMENT

THIS DOCUMENT, TOGETHER WITH ANY WRITTEN AGREEMENT EXECUTED BY SEALBOSS CORP., HEREIN AFTER REFERRED TO AS SEALBOSS, COMPRISE THE ENTIRE AGREEMENT OF THE PARTIES.

2. CREDIT APPROVAL

ALL SALES WILL BE EITHER 'C.O.D.' (COLLECT ON DELIVERY) OR 'C.W.O.' (CASH WITH ORDER) UNLESS BUYER HAS OBTAINED PRIOR CREDIT APPROVAL FROM SEALBOSS. SEALBOSS MAY AT ANY TIME REFUSE, MODIFY OR WITHDRAW EXTENSIONS OF CREDIT.

3. PRICES, RETURNS, COLLECTIONS

ALL PRICES ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE.

DO NOT RETURN MERCHANDISE WITHOUT MANDATORY WRITTEN AUTHORIZATION. A RESTOCKING FEE WILL BE CHARGED FOR ALL RETURNS. A SERVICE CHARGE OF 2% PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL PAST DUE ACCOUNTS. CUSTOMER IS TO PAY ALL LEGAL COSTS TO COLLECT PAST DUE ACCOUNTS.

4. TAXES

PRICES QUOTED ARE EXCLUSIVE OF ALL CITY, STATE AND FEDERAL TAXES, CONSULAR FEES, CUSTOMS DUTIES OR OTHER CHARGES. PAYMENT OF SUCH COSTS SHALL BE THE SOLE RESPONSIBILITY OF BUYER. WHENEVER APPLICABLE, ANY SUCH COST WHICH IS COLLECTED FROM SEALBOSS WILL BE ADDED TO THE INVOICE AS A SEPARATE CHARGE TO BE PAID BY BUYER.

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DEPARTURE AND ARRIVAL PREDICTIONS ARE ONLY APPROXIMATE. ALL GOODS ARE SOLD EITHER 'F.O.B. SHIP POINT' OR 'C.I.F. DESTINATION' OR 'EX-WORKS'. ALL RISK OF LOSS OR DAMAGE, AND OTHER INCIDENTS OF OWNERSHIP PASS TO BUYER UPON DELIVERY OF THE GOODS TO THE CARRIER. IF THERE IS ANY EVIDENCE OF INJURY TO CONTAINERS, PACKING OR CONTENTS, BUYER SHOULD NOT RECEIPT TO CARRIER "IN GOOD CONDITION", BUT SHOULD GIVE RECEIPT ACCORDING TO FACTS.

6. BACK ORDERS

SEALBOSS RESERVES THE RIGHT TO SHIP LESS THAN THE QUANTITY OF ANY ITEM OR ITEMS ORDERED BY BUYER, AND MAY CANCEL OR BACK ORDER THE BALANCE OF THE ORDER WITHOUT PRIOR NOTICE TO OR AUTHORIZATION FROM BUYER.

7. WARRANTIES

SEALBOSS WARRANTS THE GOODS SOLD AND DELIVERED HEREUNDER TO CONFORM TO THE DESCRIPTION ON THE INVOICE ATTACHED. SUCH WARRANTY IS GIVEN IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING ANY WARRANTY THAT THE GOODS ARE FIT FOR BUYER'S PARTICULAR PURPOSES. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

8. BUYER'S REMEDIES

BUYER MUST NOTIFY SEALBOSS OF ANY BREACH OF WARRANTY. SEALBOSS MUST BE GIVEN A REASONABLE OPPORTUNITY TO INVESTIGATE ALL CLAIMS AND BUYER MUST COOPERATE IN ANY INVESTIGATION. UPON SEALBOSS'S DETERMINATION THAT A BREACH HAS OCCURRED, SEALBOSS WILL AT SEALBOSS'S OPTION, REPAIR OR REPLACE THE GOODS AFFECTED BY THE BREACH. WHERE DEFECTS ARE DISCOVERABLE UPON REASONABLE INSPECTION OR WHERE NON-CONFORMITY IS CLAIMED, RETURNS SHALL BE MADE ONLY TO THE SEALBOSS WAREHOUSE OFFICE, CALIFORNIA. IN THE CASE OF SUCH RETURNS, BUYER SHALL SEND TO SEALBOSS SEPARATE WRITTEN NOTICE SETTING FORTH THE NATURE OF THE ALLEGED DEFECTS OR NON-CONFORMITY. ANY RETURNS SHALL BE MADE ONLY AFTER AUTHORIZATION FROM SEALBOSS AND WILL ONLY BE ACCEPTED BY SEALBOSS WITH A SPECIAL SHIPPING LABEL ATTACHED WHICH INDICATES SUCH RETURN AUTHORIZATION. BUYER SHALL MAKE NO DEDUCTIONS FOR RETURNED GOODS ON ITS REMITTANCE BEFORE RECEIVING SEALBOSS'S CREDIT MEMORANDUM ACKNOWLEDGING RECEIPT OF THE GOODS. BUYER SHALL BEAR ALL RISK OF LOSS FOR RETURNED GOODS UNTIL RECEIPT OF THE GOODS BY SEALBOSS. THE REMEDIES PROVIDED HEREIN SHALL BE BUYER'S EXCLUSIVE REMEDIES FOR BREACH OF ANY WARRANTY. EXCEPT AS PROVIDED HEREIN, BUYER MAY NOT DEDUCT, FROM THE PRICE DUE UNDER THIS CONTRACT, ANY DAMAGES DUE TO BREACH OF ANY PROVISION OF THIS CONTRACT.

9. LIMITATION OF LIABILITY

SEALBOSS SHALL NOT BE LIABLE FOR ANY BREACH OF WARRANTY UNLESS WRITTEN NOTICE OF THE BREACH IS RECEIVED BY SEALBOSS WITHIN FIVE (5) DAYS OF BUYER'S RECEIPT OF THE GOODS, NOR SHALL SEALBOSS BE LIABLE IN ANY EVENT FOR COSTS, LOSS OF PROFITS, OR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH, DEFAULT OR DELAY OF PERFORMANCE BY SEALBOSS UNDER THIS CONTRACT.

10. CANCELLATION

BUYER MAY NOT CANCEL ITS ORDER FOLLOWING SUBMITTAL OF SIGNED & AUTHORIZED PURCHASE ORDER.

11. FORCE MAJEURE

SEALBOSS SHALL NOT BE LIABLE FOR ANY DELAY IN FULFILLMENT OF OR FAILURE TO FULFILL THIS ORDER FOR ANY CAUSE NOT REASONABLY WITHIN THE CONTROL OF SEALBOSS (INCLUDING WITHOUT LIMITATION ANY ALLOCATION PROGRAM IN EFFECT PURSUANT TO GOVERNMENT DIRECTION OR REQUEST OR INSTITUTED IN COOPERATION WITH ANY GOVERNMENT AUTHORITY, FIRES, ACTS OF GOD, ACCIDENTS TO, BREAKDOWNS OR MECHANICAL FAILURE OF MACHINERY OR EQUIPMENT, HOWEVER CAUSED, FAILURE OF DELIVERY OF MATERIALS FROM NORMAL SOURCES, STRIKES, LOCKOUTS OR OTHER LABOR TROUBLES). IN THE EVENT OF SEALBOSS'S INABILITY TO FULFILL OR DELAY IN FULFILLING THIS ORDER BY REASON OF ANY

SUCH CAUSE, SEALBOSS MAY CANCEL THIS ORDER IN WHOLE OR IN PART OR DELAY PERFORMANCE HEREUNDER FOR SUCH REASONABLE PERIOD AS MAY BE NECESSARY TO PERMIT SEALBOSS TO FULFILL THIS ORDER.

12. SELLER'S REMEDIES

UPON ANY BREACH BY BUYER OF ANY TERMS OF THIS CONTRACT OR ANY OTHER CONTRACT OR OBLIGATION BETWEEN BUYER AND SEALBOSS, OR UPON ANY ASSIGNMENT FOR THE BENEFIT OF CREDITORS OR FILING OF BANKRUPTCY, RECEIVERSHIP, MORATORIUM ARRANGEMENT OR DEBT RELIEF PROCEEDINGS BY OR AGAINST BUYER, ALL SUMS OWED BY BUYER TO SEALBOSS SHALL BECOME IMMEDIATELY DUE AND PAYABLE WITHOUT DEMAND OR NOTICE. IN ADDITION TO ANY OTHER RIGHTS OR REMEDIES GIVEN TO SEALBOSS BY APPLICABLE LAW, UPON ANY SUCH OCCURRENCES, SEALBOSS MAY APPLY ANY OF BUYER'S MONEY WHICH MAY BE IN THE HANDS OF SEALBOSS FOR THE PURPOSE OF THIS OR ANY OTHER ORDER TO THE PAYMENT OF ANY DAMAGES TO WHICH SEALBOSS MAY BE ENTITLED BY REASON OF SUCH BREACH. ALL DELINQUENT AMOUNTS OWED WILL ACCRUE INTEREST AT THE RATE OF 24% PER ANNUM FROM THE DATE DUE UNTIL THE DATE PAYMENT IS RECEIVED.

13. INDEMNIFICATION OF SELLER

BUYER WILL DEFEND, INDEMNIFY AND HOLD SEALBOSS HARMLESS AGAINST ALL LEGAL OR ADMINISTRATIVE ACTIONS, LIABILITY, CLAIMS OR DEMANDS INCURRED IN DEFENDING ANY LEGAL ACTION FOR INJURIES OR DAMAGES TO ANY PERSON OR PROPERTY ARISING OUT OF OR CONNECTED WITH THE PURCHASE OR USE OF THE GOODS BY BUYER OR BY PARTIES TO WHOM BUYER MAY SELL OR OTHERWISE TRANSFER THE GOODS.

14. SELLER'S PATENT DISCLAIMER

SEALBOSS MAKES NO WARRANTY THAT THE GOODS ARE OR WILL BE DELIVERED FREE OF THE CLAIMS OF ANY PERSON BY WAY OF PATENT, COPYRIGHT, TRADEMARK INFRINGEMENT, OR THE LIKE. BUYER ASSUMES ALL RISKS (INCLUDING THE RISK OF SUIT) THAT THE GOODS OR ANY USE OF THE GOODS INFRINGE EXISTING OR SUBSEQUENTLY ISSUED PATENTS, COPYRIGHTS, TRADEMARKS, OR THE LIKE.

15. BUYER'S PATENT INDEMNIFICATION

BUYER WILL HOLD SEALBOSS HARMLESS FROM ANY CLAIM THAT BY COMPLYING WITH THE SPECIFICATIONS FURNISHED BY BUYER, SEALBOSS HAS INFRINGED ANY PATENT, TRADEMARK, COPYRIGHT OR THE LIKE EXISTING OR HEREAFTER ISSUED. BUYER FURTHER WILL HOLD SEALBOSS HARMLESS AGAINST ALL CLAIMS THAT THE GOODS SOLD HEREUNDER AS ALTERED BY BUYER OR USED IN A PROCESS OR IN COMBINATION WITH OTHER GOODS BY BUYER INFRINGE ANY PATENT, TRADEMARK, COPYRIGHT OR THE LIKE EXISTING OR HEREAFTER ISSUED.

16. CHOICE OF LAW

THIS CONTRACT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA.

17. LIMITATION OF ACTIONS AND VENUE

ANY ACTION AGAINST SEALBOSS ARISING OUT OF OR RELATING TO THIS CONTRACT OR THE GOODS IT COVERS MUST BE BROUGHT WITHIN FOUR MONTHS OF THE ACCRUAL OF THE CAUSE OF ACTION AND MUST BE BROUGHT WITHIN THE COUNTY OR JUDICIAL DISTRICT WHERE SEALBOSS HAS ITS PRINCIPAL PLACE OF BUSINESS AT THE TIME THE ACTION IS BROUGHT. SHOULD BUYER BE A DEFENDANT IN AN ACTION BROUGHT BY SEALBOSS, BUYER CONSENTS TO JURISDICTION AND VENUE IN THE COUNTY OR JUDICIAL DISTRICT IN WHICH SEALBOSS HAS ITS PRINCIPAL PLACE OF BUSINESS AT THE TIME THE ACTION IS BROUGHT.

Limited Warranty Policy and Disclaimer for Products Supplied and/or Distributed by SealBoss Corp.:

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss Corp. warrants supplied / distributed products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss Corp. shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. SealBoss Corp. shall not be responsible for use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, UV damage, excessive temperature exposure, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and / or physical movement of the substrate or structural defects are also excluded from the limited warranty. SealBoss Corp. reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Recommendations and statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller. SealBoss Corp. reserves the right to change the properties of products without notice.



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