**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 NSF 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: Sandblast 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°F to 15°F increase in temperature above 75°F and the gel time will double for each 10°F to 15°F 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.

**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
- Bulk & Cartridge System
- This Product is for Professional Use
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 instructions 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.

Technical Data:

<table>
<thead>
<tr>
<th>Components</th>
<th>Resin, Hardener</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per Gallon</td>
<td>11.9 lb</td>
</tr>
<tr>
<td>Mix Ratio, pb volume</td>
<td>1:1 (1:1.4)</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Consistency</td>
<td>Non-Sage Paste</td>
</tr>
<tr>
<td>Gel Time 100 grams</td>
<td>approx. 9 min.</td>
</tr>
</tbody>
</table>

Cured Product Characteristics

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

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.