

### Injection behind saturated oakum or open-cell backer rod using injection needles

#### Overview

After packing the annular space with saturated oakum or open-cell backer rod, inject liquid polyurethane grout behind the packing to form a more complete seal. Use a stainless steel grout injection needle connected to an airless grout pump or injection wand. SealBoss injection needles are available in various lengths.

Begin at the bottom of the pipe, at the 6 o'clock position. Insert the needle through the saturated oakum or open-cell backer rod and pump grout into the joint. Monitor grout migration by making small observation holes in the packing around the circumference of the pipe, above the active injection area.

#### Application Sequence and Illustrations

The following sequence provides a clean field workflow for annular-space grouting after the initial packing material has been installed.

1. Pack the annular space with saturated oakum or open-cell backer rod to the required depth.
2. Insert the injection needle at the 6 o'clock position and begin pumping grout behind the packing.
3. Use observation holes or vent points above the injection area to confirm grout migration around the pipe.
4. If grout does not appear at the intended observation point, relocate the needle and repeat at other positions around the pipe, such as 3 o'clock and 9 o'clock.
5. Continue the injection process until the annular space is filled and the seal is complete.

Typical injection positions are referenced like clock positions around the pipe: 6 o'clock at the bottom, 3 and 9 o'clock at the sides, and 12 o'clock at the top.

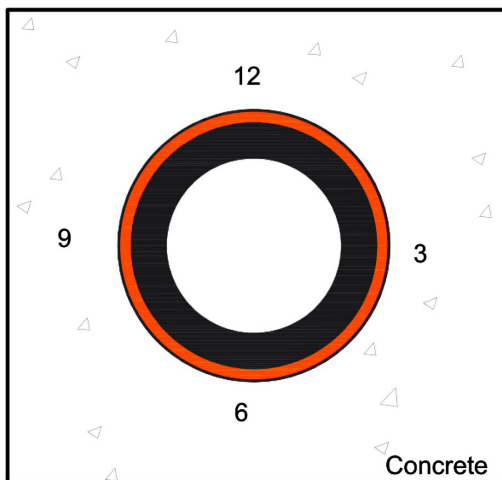


Fig. 1. Front view - pipe penetration through vertical concrete wall.

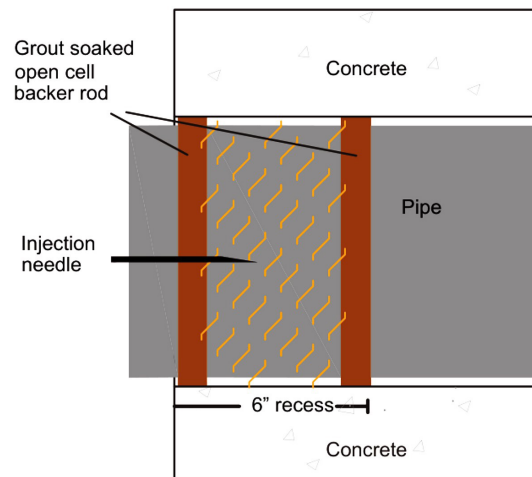


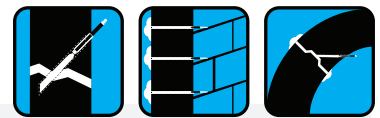
Fig. 2. Cross section - pipe penetration, annular-space grouting.

#### Injection Equipment

- Airless grout pump or drill operated pump fitted with a stainless injection needle
- Separate pump for water, if pre-wetting is required
- Moisture-resistant hose for the grout-side pump
- SealBoss approved pump cleaners & Pump Flush
- Three to four clean, empty 5-gallon buckets with lids
- Injection needles
- SealBoss polyurethane injection grout system

#### Field Notes

- Start injection at the 6 o'clock position and use upper observation points to verify material travel.
- Do not overfill the pump hopper or mix more material than can be pumped within the usable working time.
- Keep equipment dry until the grout is ready to be introduced; moisture can start the reaction prematurely.
- Use only the pump cleaner recommended for the grout system.



## Pump Loading and Cleanup Procedure

### Starting the Job

At the start of the workday, purge the grout pump with fresh SealBoss® R70 Pump Flush & Cleaner to remove any debris or moisture from the system.

If the pump is equipped with a suction hose, place the hose into the grout bucket. If the pump has a hopper, fill the hopper with grout. Pump grout into a waste bucket until grout flows consistently and undiluted from the applicator gun.

### Ending the Job

At the end of the workday, purge and clean the pump.

### Step One - Purge and Flush

Purge the system of the injection material into a waste bucket. If permitted under all applicable job-site regulations, the initial clearing of residual material may be performed with a solvent that is compatible with the product. Follow all solvent-use instructions and all required safety and regulatory procedures.

Please note that some solvents may damage pump seals, gaskets, and hoses. Therefore, immediately after the initial solvent purge, flush the pump with a sufficient amount of SealBoss® R70 Pump Flush & Cleaner to remove any residual product and solvent.

Dispense the liquid into a waste bucket and dispose of it legally. Do not recirculate contaminated flush material at this stage.

### Step Two - Recirculate

After most of the grout has been purged and flushed from the system, use a sufficient amount of SealBoss® R70 Pump Flush & Cleaner and recirculate it through the pump for at least five (5) minutes at a safe pressure setting.

This process helps remove remaining debris and condition the gaskets, hose interiors, and related pump components, helping to prolong the service life of the pumping equipment. A residual amount of clean SealBoss® R70 Pump Flush & Cleaner may remain in the system as a lubricant.

Fresh pump cleaner may remain in the system overnight only. Always purge the pump with fresh pump cleaner before loading grout into the pump.



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Revised 202604

