

## Low Pressure Injection using SealGuard II

- For situations where very high, fast water flows are leaking from a crack, defective pipe seal or hole.
- SealGuard II is very fast reacting so the water flow will not wash it out before reacting.

### Required Equipment

- Hammer Drill and 5/8 inch drill bit
- Dual Component Caulking Gun
- SealGuard II Tube Set with Static Mixer
- Burlap, Wedges, or Backer rod

Can be used on:

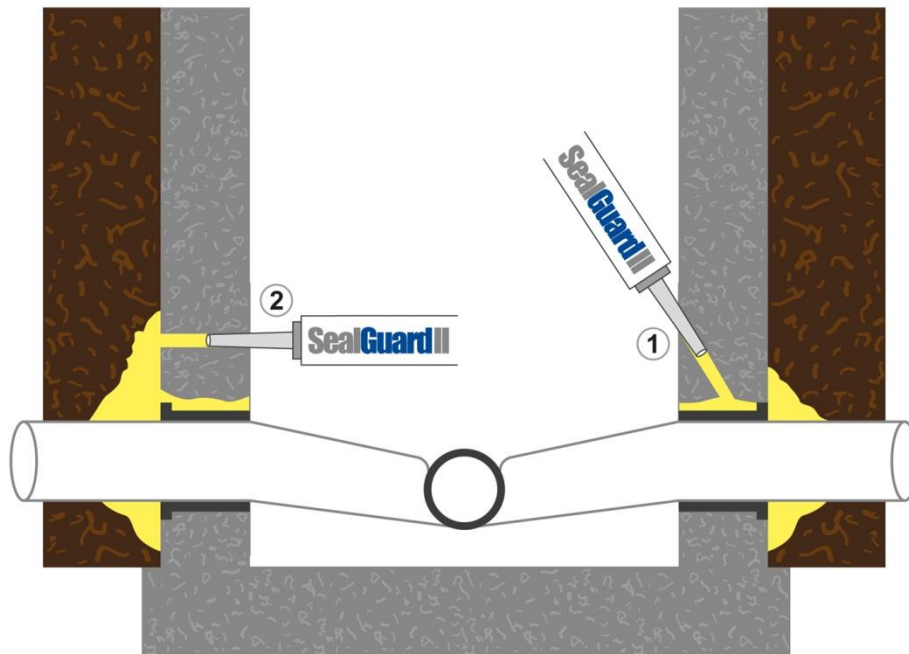
- Leaking or failed manhole boot seals.
- Leaking barrel joints or cold joints.
- Annular space around a pipe or a conduit
- Leaking roof bolts (mining)
- Failed mortar around pipes
- Missing brick

### Instructions:

1. Drill a 5/8" hole so that you intersect the leak path. This can be done one of two ways depending on the repair:
  - a. In underground structures such as manholes or vaults where the wall thickness is 12" or less, a hole can be drilled straight back, approximately 4" to 6" above the leak, breaching the structure.
  - b. Underground structures with walls thicker than 12" will require a 5/8" hole be drilled at an angle to intersect the leak path.



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While this drawing is of a manole, it illustrates the principal of drilling through the substrate on the left, intersecting the leak path on the right.

#### IMPORTANT NOTE ABOUT DRILLING A HOLE TO INJECT SEALGUARD II

- If, once you have drilled your hole you do not get a return of water, it will probably be necessary to drill another. Usually when water is flowing at a high rate of speed it will flow back through a hole that intersects it.
- After the hole is drilled and return verified, it may be necessary to chink the leak with an appropriate material (see “Chinking” definition in Section 2). A rough rule of thumb is if the water is flying from the leak, chink, if it is merely flowing you should be fine without it, although it never hurts to do so.

#### 2. Prepare SealGuard II Tube for Injection:

- a. Remove nut from top of tube set and place over static mixer.
- b. Remove the tab on the top of the SealGuard II tube and connect it to the static mixer using the nut to tighten the assembly.
- c. Place tube set into the dual component caulking gun & jam static mixer snugly into your injection hole.

#### 3. Pump SealGuard II vigorously, stopping when either the hole will not accept any more or when you see a show of material at the face and the leak stops. DO NOT FORCE

SEALGUARD II IT COULD RESULT IN BACKFLOW INTO THE CARTRIDGE SET OR A BROKEN GUN. **APPLICATION TIP:** It may help, when dealing with a fast inflow, to pause for a second or two once you've pumped enough SealGuard II in to fill the static mixer. This will allow material to get closer to set up just prior to entering the water path, making it less likely to wash out of the crack.

4. If you still have SealGuard II remaining in the tube set, QUICKLY detach the nut and remove the tube set. The patented check valve in the mixer will keep material in the mixer from reacting back into the cartridges. Using another mixer, the remainder in the tubes could then be injected in another site. If not to be used immediately, replace the white tab on top of the cartridge set.

