

## Sealing of Annular Space Around Pipes or Conduits

*Injection behind saturated oakum or open cell backer rod with injection needles*

After the space has been packed with saturated oakum or open cell backer rod, it may be desirable to inject liquid grout in back of the packing. This can be accomplished by using a 1/8" or 1/4" O.D. injection needle and an airless grout pump. The injection needle is attached to the end of the injection wand on the grease gun. Starting at the bottom of the pipe (6:00 o'clock) Insert needle through the Saturated Oakum or open cell backer rod packing and pump material into joint through the injection needle. Check migration of material by making holes in the Oakum or open cell backer rod around the circumference of the pipe above the area that is receiving the injection.

### EQUIPMENT FOR INJECTION WITH INJECTION NEEDLES:

- 1-Airless sprayer pump for grout. Fitted with stainless injection needle. 1-Airless sprayer for water.
- Moisture resistant hose for grout side pump
- Injector Guns-(2)
- Aquafin Grout Out
- 3 - 4 clean, empty 5 gallon buckets with lids
- Injectors
- Aquafin Polyurethane Grouts

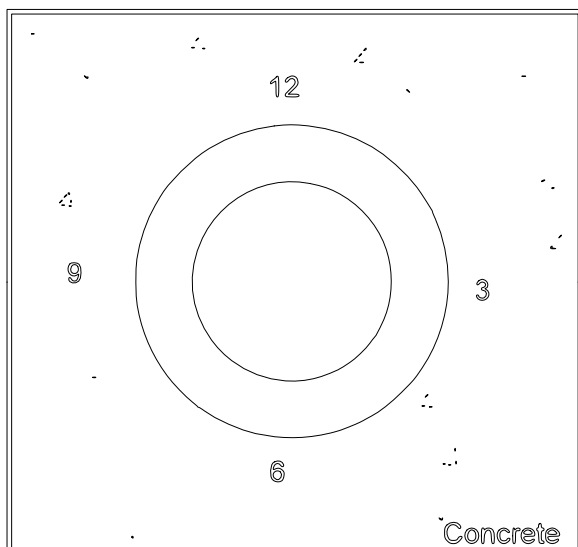
### PUMP LOADING PROCEDURE:

1. Every morning use Aquafin Grout Out to purge grout side of a clean pump.
2. Pour two gallons, (4 inches to 5 inches) of Grout Out in bucket "A". Place suction hose in bucket "A" and pump through injector gun back into bucket "A". Cover bucket "A" and set aside. Then, immediately place suction hose into grout bucket "B". Pump into waste bucket "C" until grout emerges from gun.
3. After day's work, clean and purge the pump. Insert suction hose into Grout Out, bucket "A" and pump into waste bucket "C" until all grout is out of the system and Grout Out is seen flowing well. (Clean Grout Out can be left in system overnight only).

Always purge system with clean Grout Out when starting to grout with an unloaded pump.

### Illustration Examples:

*Fig. 1. Front View - Pipe penetration through vertical concrete wall.*



*Fig. 2. Cross Section - Pipe penetration, annular space grouting.*

