



URETHANE INJECTION

For Repair of Cracked Concrete

This simple to use system has been designed to permanently repair a multitude of concrete structures, such as floors, walls, precast concrete, concrete foundations, etc. This system not only fills the cracks, but allows for moderate movement, repaired concrete normally will not crack again. With this system cracks as small as 1/8" can be injected. The cracks can be dry or wet. There is no drilling or routing involved with this system.

1. CRACK PREPARATION

a) Prior to injection, the concrete must be cleaned, with the use of a wire brush around the crack. (Figure #1)



Figure #1

b) Place injection ports approximately every 6" - 8" along the crack. Deposit 4 drops of porting gel adhesive on the bottom of each port. Press the port firmly against the surface, and hold for 15-40 seconds. Make certain that the injection port is centred over the crack for best results. Allow adhesive to dry before applying remainder of the epoxy gel. (Figure #2)



Figure #2

c) After placement of the injection ports the crack must be sealed. The use of an epoxy gel is required. Using a putty knife or disposable blade apply the epoxy gel over the crack and around the injection ports. Tool the epoxy gel to a conical shape over the ports. The epoxy gel should extend a minimum of 1" on each side of the crack. (Figures #3 & #4)

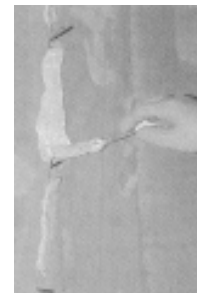


Figure #3



Figure #4

2. CRACK INJECTION

a) Allow ample time for the epoxy gel to cure before injection, approximately overnight.



Figure #5

b) Fill empty tube with cold water and replace the black plunger. Using the low viscosity polyurethane start the injection at the bottom of the crack. Place connector over the injection port, and force the polyurethane into the crack, until material starts to flow out of the port above the one being injected. (Figures #5 & #6).

c) Place a cap over the current port and then move to the next port. Repeat until all ports have been injected.

d) After the injection is done you can remove the ports and the surface gel by grinding them off. Allow minimum of 24 hours to lapse before the removal of the ports and surface gel.



Figure #6

For critical applications, use of pressure injection equipment and qualified applicators are recommended.

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