



EPOXY INJECTION For Structural Repair of Cracked Concrete

This simple to use system has been designed to permanently repair a multitude of concrete structures, such as columns, beams, floors, walls, precast concrete, concrete foundations, etc. This system not only fills the cracks, but structurally welds the concrete back to its original design strength. With this system cracks as small as 1/8" can be injected. 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)

b) Place injection ports approximately every 6" - 8" along the crack. Deposit a few drops of epoxy 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. Do plug crack or port with the epoxy gel. (Figure #2)

c) After placement of the injection ports the crack must be sealed. Use the rest of the epoxy gel. 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 #1



Figure #2



Figure #3



Figure #4

2. CRACK INJECTION

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

b) Using a low viscosity epoxy start the injection at the bottom of the crack. Place nozzle into the injection port, and force the epoxy into the crack, until material starts to flow out of the port above the one being injected. Do not apply epoxy if the crack is wet. (Figures #5 & #6).

c) Place a plug or 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 #5



Figure #6

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

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