



Con-Spec Industries Ltd.

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 smaller than 1/16" 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 mixed 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 not plug crack or port with the epoxy gel. Do not apply epoxy gel on a wet surface. (Figure #2)

c) After placement of the injection ports the crack must be sealed. Use the rest of the mixed epoxy gel (only mix what can be used within working time of the epoxy). Using a putty knife or disposable blade apply the epoxy gel over the crack and around the injection ports. Tool the gel to a conical shape over the ports. The gel should extend a minimum of 1" on each side of the crack. Make sure there are no pinholes. (Figures #3 & #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 gently but firmly inject the epoxy into the crack, until material starts to flow out of the port above the one being injected. (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 elapse before the removal of the ports and surface gel.



Figure #1



Figure #2



Figure #3



Figure #4



Figure #5



Figure #6

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

Seller warrants that the product described on the face hereof has been manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer shall be responsible for any claims resulting from the failure to utilize the product in the manner in which it was intended and in accordance with instructions provided for use of product. The only obligation of either the seller or manufacturer shall be to replace any quantity of this product which proved to be defective. Neither seller nor manufacture assumes any liability, loss, or damage resulting from use of this product.