

Method Statement no. 5

METHOD STATEMENT FOR INJECTION BY THE USE OF PATENTED PLASTIC TEES

SINIT, based on many years' experience throughout the world, has studied and patented "a low pressure injection system" (patent N. 932151).

The injected resin must exert a certain pressure without exceeding 3 bars against the internal surfaces of the cracks, as a guarantee of a secure adhesion, especially in the presence of humidity. Extreme attention should be paid to the effect of high pressure: a pressure of one bar develops the equivalent thrust of ten tons per square meter.

To avoid drilling the concrete as this obstructs injection voids, special patented plastic tees are adhered onto the surface of the cracks using Epoxy Paste Adhesive (P.A.103 or P.A.103 S.G. for hot climates).

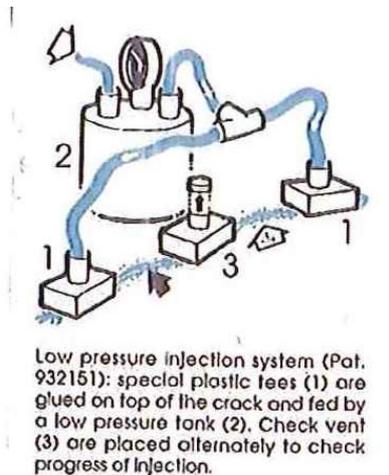
These special tees of about 17 sq.cm. of area, cover a wide section of the crack with consequent better distribution of the resin and considerable reduction of the time necessary for injection. They are installed every 30-60 cm. while the entire crack is sealed with P.A.103 Epoxy Paste Adhesive in order to stop the resin from leaking with consequent loss of pressure.

Where cracks extend through the entire thickness of member and are accessible from the other side, should be sealed on both sides with P.A.103 Epoxy Paste Adhesive.

With an "injection pot" the resin is pumped at low pressure into a hose attached to injection tees. The injection starts from the bottom of the crack proceeding from the lowest tee to the next higher up each time the succeeding tee shows evidence of the resin advancing. Be sure last tee filled is closed before proceeding to the next.

Repeat the process until the entire crack is filled.

After INJECTION 1 has cured and cracks are sealed, the Epoxy Paste Adhesive, used to adhere the injection tees, can be removed with hammer and chisel or with a cutting-off machine.



Low pressure injection system (Pat. 932151): special plastic tees (1) are glued on top of the crack and fed by a low pressure tank (2). Check vent (3) are placed alternately to check progress of injection.

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