POLY WALL INJECTION EPOXY HV

PRODUCT PRESENTATION

POLY WALL INJECTION EPOXY HV is a two-component, 100% solid, moisture-insensitive epoxy resin system which has a high modulus of elasticity. POLY WALL INJECTION EPOXY HV is formulated to meet ASTM C-881 specifications. It is unique in that it rapidly thickens in the crack so that material cannot leak out the back for more than 10-20 minutes (unlike conventional products which can flow out hours after injection). You can now confidently replace whatever may have leaked out in those twenty minutes knowing that no more can leak out, unless all the initial injection has leaked out the back of the crack within 20 minutes (unlikely to happen). This overcomes the most common epoxy crack repair failure, namely the incomplete injection of epoxy into a crack arising when material leaks out the back of a crack after injection.

USES

A) Structural repair of cracked concrete by pressure injection, grouting.
B) Monolithic restoration of delaminated concrete.
C) Grouting material when mixed with aggregate.

SURFACE PREPARATION

All surfaces must be clean and free of dirt, dust, oil, grease or any contaminant that could adversely affect the bond of the surface seal. Surfaces must be structurally sound. Surfaces may be dry or damp. However, due to the many variables in bonding damp surfaces, be certain to make a test application under the same conditions as the full scale work.

APPLICATION

Injection Pressure: The material can be injected into cracks down to 0.002 inches with pressures ranging from 20 to 300 PSI. Inject through plastic ports. Depending upon the depth of the slab, place them every 6" to 2' along the length of the crack. Wherever possible, seal all surfaces of the crack. When dealing with hydrostatic pressure, hydraulic cement should be used to control the water flow and seal the crack.

Begin injection of the mixed material with the lowest port or at one end of the crack. Continue pumping until resin flows from the next port. Then seal the first port and move onto the next one using the same procedure along the length of the crack.

Gravity: "Vee" out the cracks. Blow and clean out thoroughly with oil-free compressor air. Fill the cracks with RESIN. More than one application may be required.

TECHNICAL DATA

PROPERTIES (UNCURED)	PART A	PART B	MIXED
Viscosity, cps	2000-4000	300-600	Not Avail.
Shelf Life	1 year	1 year	
Pot Life: (50 gm)	____	____	10 min.
Tack Free Time (Thin Film)	____	____	1-3 hours
Final Cure (75% ultimate strength)	____	____	1-2 days

PHYSICAL PROPERTIES AFTER CURE OF 14 DAYS @ 75ºF. AT 50% R.H.

Tensile Strength	ASTM D-638	8500 PSI
Tensile Elongation	ASTM D-638 modified	2-4%
Compressive Strength	ASTM D-695	12,000 PSI
Compressive Modulus	ASTM D-695 (28 days)	500,000 PSI
Shear Strength	ASTM D-732	5,100 PSI
Deflection temp: @ 264 PSI	ASTM D-648	126ºF
Bond Strength	ASTM C-882	2,800 PSI

WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.