

CHEM-POXY IR

LOW VISCOSITY EPOXY SYSTEM FOR CRACK INJECTION

DESCRIPTION:

CHEM-POXY IR is a 100% reactive, two component materials designed as a moisture insensitive adhesive for numerous injection and structural cracks repair.

This high modulus material is formulated at a very low viscosity for deep penetration into fine cracks.

FEATURES / BENEFITS:

- Excellent adhesive for pressure injection of fine cracks.
- Moisture insensitive for bond to dry or damp surfaces.
- Provides a tough, weather resistant seal for porous concrete.
- Penetrates deep into concrete cracks and fissures.
- Formulated in a 2 to 1 mixing ratio for use with most injection equipment.
- The bond strength is more than the tensile strength of good grade concrete.

TECHNICAL INFORMATION:

Typical Engineering Data

Tensile Strength

ASTM D638-97 47.1 MPa

Tensile elongation at break

ASTM D638-97 3.2%

Shear strength

ASTM D 882-91 21.9 MPa

Tensile modulus

ASTM D638-97 2635 MPa

Shore D hardness

ASTM D2240 85

Flexural strength

ASTM D790-97 62.9 MPa

Viscosity 220 cps at 75°F (24°C)

Gel Time

1 gal (3.8 liter) unit 26 min

Mix Ratio, Part A to Part B: 2 to 1 by volume

Compressive Strength - ASTM D695-96

1 day 55.0 MPa

3 days 75.2 MPa

7 days 90.0 MPa

DIRECTIONS FOR USE:

Crack Injection - **CHEM-POXY IR** can be gravity fed or pressure injected into horizontal cracks. Vertical and overhead cracks must be pressure injected.

Insert one way polyethylene valves or ports into hole drilled at an angle to intersect the crack. Areas around the entry port and the crack

between ports should be sealed with Chempoxy Mortar. Inject the neat material with an epoxy injection machine or other mechanical means. Can be injected with one component hydraulic injection pump.

Make sure that two component injection equipment is properly set for a 2 to 1 mixing ratio (Part A to Part B) by volume if using 2k pump.

Mixing - All materials should be in the proper temperature range of 16°C to 32°C. When not using a two component pump, mix parts A and B (resin & hardener) for 2 minutes using a drill and mixing prop. For ease of mixing, add the part B to the part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction.

Crack Healing - After mixing, pour or squeegee epoxy into cracks and allow to seep in. Continue to apply material until crack is full.

CLEAN-UP:

Clean tools and equipment with solvent such as CHEM SOLVENT, xylene, xylol, toluene or MEK. Do not allow the resin to harden in the equipment.

PRECAUTIONS / LIMITATIONS:

- Epoxy components may cause irritation; avoid contact with skin and eyes.
- Always wear protective clothing (rubber gloves, eye protection, etc.) when using product.
- Always use goggles when injecting at pressure.
- Solvents used for Clean-up are flammable. Keep away from heat, sparks, open flame or lighted cigarettes.

PACKAGING:

CHEM-POXY IR is packaged in a two component (2 kg Resin and 1 kg Hardener), 3 Kg Units.