



Hydrapox Injection

2- component Epoxy Resin for Crack Injection

Description

Hydrapox Injection is an unfilled and unpigmented resin with exceptionally low viscosity for pressure injection. Free from diluting agents, insoluble and non-reactive.

Standard

Complies with ASTM C881-78 Type I, Grade 1 Class B+C

Object

- For closing cracks in concrete and mortars in vertical, horizontal and overhead structures
- Bonds against concrete, stone, mortar, steel and wood.
- For cracks down to 0.2 mm on surface and tapering down internally to 0.01 mm
- For sealing any cracks where pressurized injection necessary to fill the voids.
- May be applied with brush or roller on horizontal surfaces and as free-flowing epoxy which will then penetrate and seal shrinkage and micro cracks in surface of concrete/mortar (floors, bridge-deck, pre-fab materials, etc)
- For closing cracks in bridge-decks and pre-fab elements in expressway and highway objects before paving with bitumen and other materials

Advantage

- Easy mixing from convenient and economical package
- May be used on moist and absorbent surfaces.
- Solvent-free

- Extremely low viscosity ensuring very good penetration and plastic flow both as free-flowing material (brush or roller applied on horizontal surfaces) and when pressurized by injection equipment;
- Extremely high (more than 100%) tensile elongation which makes Hydrapox Injection very suitable for use in structures exposed to vibrations (bridge-decks, pre-fab structure in expressway construction, etc) and to structures which are exposed to continuous structural movements.

Instruction for Use

- Drill holes along the crack line
- Clean crack line with electric grinding tools and ensure that concrete surface is clean, sound and free from oil and grease
- Insert injection nipples in holes at distances of between 20 to 40 cm to avoid any counter-pressure
- Seal along the crack line on surface with Hydrapox 112
- Blow through the nipples with compressed air to ensure dust and loose particles are removed
- Inject Hydrapox Injection by using suitable pressurized injection equipment such as a twin line manual crack injection pump, a peristaltic pump or other similar equipment. Nipples should be open at suitable intervals and injection should continue until the epoxy comes out at other end of system

- Remove the nipples and close with Hydrapox Injection
- Consult ACT Technical Services for demonstrations at site.
- Hydrapox Injection may also be brushed or rolled on to surface for sealing micro-cracks and shrinkage cracks. If such surface exposed to direct sunshine, do such application immediately or soon before application of other layers on top to ensure no degradation of epoxy due to UV-light. If longer time before subsequent top layers added, saturate Hydrapox Injection on surface with sand filler to prevent exposure to UV-light.

Packing

15 kg./set

Characteristics

Appearance:	Reddish Liquid
Bulk density:	1.02 kg/l.
Viscosity :	350 cps
Solid :	100%
Compressive Strength :	800 ksc
Tensile Strength :	300 ksc
Bonding Strength :	> 35 ksc

Precautions

Use gloves. Ensure epoxy does not come in contact with skin. In closed rooms, use breathing masks.

Harmful if swallowed. If epoxy comes in contact with eyes, rush to hospital. Clean all equipment used immediately after completion work using either Xylene or Toluene

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