

FIBPOXY (IR)

Moisture insensitive injection resin

DESCRIPTION

FIBPOXY (IR) is a 100% reactive, two component material designed as a moisture insensitive adhesive for numerous injection and sealing needs. This high modulus material is formulated as a super low viscosity for each of use is penetration deep into thin cracks.

AREAS OF APPLICATION

- Permanent bonding of structural damage
- Parking structures
- Bridge structures
- Marine structures
- Retaining walls
- Earthquake damage
- Vertical and overhead applications

FEATURES & BENEFITS

- Excellent adhesive for pressure injection of fine cracks
- Moisture insensitive for bond on dry or damp surfaces
- Provides a tough, weather resistant seal for porous concrete
- Penetrates deep into concrete cracks and fissures
- Formulated in a 2: 1 mixing ratio for use with most injection equipment.

TECHNICAL SPECIFICATIONS

Ultimate Tensile Strength ASTM D 638	:	62 MPa
Tensile Elongation at break ASTM D 638	:	3.5%
Shear Bond strength ASTM C 882	:	26 MPa
Tensile modulus of elasticity ASTM D 638	:	3172 MPa
Shore D Hardness ASTM D 2240	:	85
Flexural Strength ASTM D 790	:	97 MPa
Viscosity	:	240C
Gel Time - 4 kg	:	26 min
Mix Ratio	:	Part A to Part B to 1 Volume

APPLICATION METHODOLOGY

CRACK INJECTION

FIBPOXY (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 drill hole at the face of the crack. Areas around the entry port and the crack between ports should be sealed. Inject the neat material with an epoxy injection machine or other mechanical means. Make sure that injection equipment is properly set for a 2 to 1 mixing ratio (Part A to Part B) by volume.

MIXING

All materials should be in the proper temperature range of 16°C - 32°C. Mix parts A and B (resin & hardener) for 2 minutes using 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 crack and allow to seep in. Continue to apply material until crack is full.

CLEAN UP

Clean tools and equipments with solvent such as FIBREX Solvent, Xylene, Xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

PRECAUTIONS

- This product is primarily intended as an adhesive. While use as a coating is allowed better performance may be expected from the fibcoat product line
- This product may vary in colour and may yellow and chalk in prolonged exposure to sunlight.
- Bring material as close to 21oC as possible prior to usage. Store in room temperature environment 24 hours prior to use. Do not heat with an open flame.
- Epoxy components may cause irritation; avoid contact with skin and eyes.
- Always wear protective clothing (rubber gloves, eye protection, etc) when using the product.

PACKAGING

FIBPOXY (IR) is packaged in 6Kg & project Packing.

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