

BC EPR Injection

Product Description:-

BC EPR injection 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 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.

Basic Uses:

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



Typical Engineering Data:

Tensile Strength	57.1 MPa	ASTM D638-97
Tensile elongation at break	3.2%	ASTM D638-97
Shear strength	21.9 MPa	ASTM D 882-91
Tensile modulus	26.35 MPa	ASTM D638-97
Shore D hardness	85	ASTM D2240
Flexural strength	72.9 MPa	ASTM D790-97
Viscosity	220 cps at 75°F (24°C)	
Gel Time	1 gal (3.8 liter) unit 26 min	
Mix Ratio	Mix Ratio , Part A to Part B: 2 to 1 by volume	

Compressive Strength:

1 day = 102.0 MPa
3 days = 110.2 MPa
7 days = 119.0 MPa
14 days = 127.5 MPa

Directions for use:

BC EPR injection 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 BC Poxy mortar 5000
Inject the neat material with an epoxy injection machine or other mechanical means.
Make sure that two component 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 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 BC tec solvent101 , xylene, xylol, toluene or MEK. Do not allow the resin to harden in the equipment.

Health & Safety:

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 lit cigarettes

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