



INJECTOFIL

Low viscous epoxy injection resin grout for microcracks, also on wet surfaces

Description

INJECTOFIL is a two part system comprising of liquid base and hardener. It's low viscous properties made it able to penetrate deeply in cracks perfectly to form permanent seal with high strength. It is designed for injecting into narrow gaps, cracks and voids ranging from 0.25mm to 9mm and can be used also in structural crack of 0.05 to 3 mm.

Uses

- INJECTOFIL is used for injecting into cracks, honeycombs and cavities in concrete structures & structural cracks
- It can also be used for grouting base plates with very narrow gaps (<10mm)
- Monolithic sealing of cracks.
- Bonding steel plates to concrete by low pressure injection

Advantages

- Low viscosity can help injecting into fine cavities and narrow gaps
- It has high tensile and compressive strength which ensure long life span of structure
- High mechanical strength grout will performs even under heavy loads and stresses
- Excellent adhesive strength
- Two part system and easy to mix and handle
- Non shrink properties
- High range of chemical resistant performance
- Environment friendly
- Structural repair of beams, pillars and cracked floors by low pressure injection
- Reinforcement of beams and floors
- Repair of architectural concrete, wall coverings and architectural elements that are crumbly
- Structural consolidation and restoration of civil and industrial road constructions and underground works that show signs of microcracking
- Sealing of cracks in cementitious screeds

Method of application

Crack filling application

- The area to be injected shall be cleaned to remove all loose material, laitance, grease and other deposits.
- Injection holes of 8 – 10mm dia. shall be drilled at fixed intervals along the crack length or in a grid pattern in case of grouting of voids in concrete.
- The holes shall be cleaned to remove all dust and loose material by blowing compressed air. Suitable injection nipples of GI/PVC shall be fixed in these holes using an epoxy sealing putty.
- The cracks shall also be sealed with this product.
- The two components of INJECTOFIL injection grout shall be individually stirred and then mixed and injected into the nipples through a suitable injection pump exerting a uniform pressure.
- Injection shall be carried out till it flows from the adjacent nipple and then stopped. The same operation shall be carried out for the next nipple.

Base plate grouting application

- Construct form work ensuring gap between base plate and form work perimeter should not exceed 75 mm on pouring side and 25 mm on opposite side.
- Form work should be leak proof.
- The area to be injected shall be cleaned to remove all loose material, laitance, grease and other deposits.
- All metal should be cleaned to bright finish & all surface must be dry prior to placing.
- Place INJECTOFIL within its pot life and continuous flow is necessary without any placing gap. sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one.

Technical Information

| Properties | Results |
|--|--------------------------|
| Mixed Appearance | Yellowish liquid |
| Mixed Density gm/cm ³ @23°C | 1.08to 1.10 |
| Compressive Strength (N/mm ²) @1day @3 days @7 days (IS 9162-1979) | 45 60 70 |
| Tensile Strength (N/mm ²) @7 days (IS 9162-1979) | 18 |
| Flexural Strength (N/mm ²) @7 days (IS 9162-1979) | 55 |
| Pot Life @20°C @30°C | 60 minutes 30 minutes |
| Chemical Resistance | Yes |

Standard Compliance

- IS9197-1979, IS 9162-1979

Coverage

- Depends on the depth and width of cracks.

Packaging

- It is supplied in 7.5 kg, 15 kg and 30 kg set.

Storage

- Minimum of 24 months shelf-life if kept under room temperature (i.e. 27°C).

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