

Dr. Fixit Epoxy Injection Grout

TWO PARTS, LOW VISCOSITY EPOXY INJECTION GROUT

Description

Dr. Fixit Epoxy Injection Grout is a solvent free crack injection material composed of very low viscous liquid epoxy resin & a hardener system.

Dr. Fixit Epoxy Injection Grout is used to seal & inject cracks in concrete floors, walls & structures because it provides deep penetration, shrink free solid mass, strong bonding inside the cracks and excellent resistance to honey combing & chemicals.

Standard Compliance / Specification

- Meets the requirement of BS 6319 & ASTM C 881 standards.

Area of Application

- Permanent bonding solution for concrete cracks.
- Repair of crack concrete areas in floors, walls, tanks & sea walls.
- Injection in to cracks & honey combing in concrete & masonry.

Features & Benefits

- Excellent bond to concrete substrate
- Low viscosity, Deep penetration
- Shrink Free
- Chemical Resistant
- Suitable for damp surface

Method of Application

1 Surface Preparation

- Surface must be strong, dry, clean & free from dust, oil, grease, curing compounds, coatings & other loose materials. For better performance sand blasting, high pressure water jet cleaning, hydrochloric acid etching, mechanical grinding (by pneumatic tools) & wire brushing may be done. In case of acid etching, wash the surface till neutralization.
- Open the cracks & clean by blow of oil free air to ensure complete removal of dust & loose particles.

2 Placing / Fixing of Nozzles

- Install injection port in case of Injectin Packer, drilled hole larger than packer size & depth at least 1/3 of structural thickness
- Install injection port along the length of etch crack. The distance between each nipple will depend on width & depth of crack. spacing should be close enough to ensure that the resin penetrates along the cracks till the next point of injection.
 - In case of Injection packer, insert packer to the drill holes and fix tight to the hole
 - In case of Injection nipple, use **Dr.Fixit Epoxy Injection Grout** to fix nipple to crack surface
- The surface of the cracks in between the nipples should be sealed with **Dr.Fixit Epoxy Injection Grout** about 30-40 mm wide & 2-3 mm thick band. Incase the crack is through & through of a wall or slab, cracks at both the sides must be sealed in similar fashion. First fix the nozzles in the front portion crack, then fix the nozzles at midway points of the front nozzles. This ensures complete filling of grout into crack & surrounding areas.
- The repaired work shall be allowed to cure for at least 8 hrs at 35 °C, at low temperature of 5-12 °C curing time is extended and the applicator must ensure that the surface sealant has adequately cured prior to continuing the work.
- One end of the injection hose shall be attached to the lowest nipple on vertical cracks or to either end of the horizontal cracks. Alternative methods of resin injection are currently in use, they include the system where injection nipples are bonded to the substrate.

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3 Mixing

- Thoroughly mix the entire hardener and base resin contents until the liquids become clear.

4 Injection

- **Dr. Fixit Epoxy Injection Grout** should be used with standard injection equipment having closed containers. The injection pressure should be at least 0.2 N/mm² (2 bar).
- Only mix sufficient resin that can be used within the pot life of the materials.
- After completion of the injection work, the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time

Precautions & Limitations

- Use the material within the pot life expiry period.
- Mix entire pack quantity.
- Do not dilute the material with solvents to reduce the viscosity.
- Ensure that nozzles are fixed properly without any air leakage.

Technical Information

Properties	Specification	Results
Pot life, minutes		40 - 45 @ 30 °C 30 @ 35 °C
Sp. Gravity @ 20 °C		1.02
Initial setting time, Hrs		6
Compressive strength, N/mm ²	BS:6319 : part 2	40 - 1 day 70 - 7 days
Flexural strength, N/mm ²	BS:6319 : part 3	45 - 7 days
Tensile strength, N/mm ²	BS:6319 : part 7	17 - 7 days
Water permeability, %		Nil
Bond strength, kN	ASTM : C 881	Concrete Failure
Viscosity on brookefield RVT Model @ 30 °C, CPS		200 - 400
Mixing Ratio, by weight		2 : 1 (A:B)



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Shelf Life & Storage

- 12 months from the date of manufacturing in unopened condition. store in a cool, dry place & keep away from direct sunlight

Health & Safety Precautions

- As with all chemical products, caution should always be exercised. Protective clothings, such as gloves and goggles, should be worn.
- Treat any contact to the skin or eyes with fresh water immediately. should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.
- Reseal all containers after use and ensure product is stored as instructed.
- Do not smoke when handling this product.
- Do not inhale.

Packing

- 3 kg. Set (A+B)

Other Product Categories available

- Waterproofing
- Sealants
- Flooring
- Tiling & Adhesive
- Repairing System
- Admixtures & Concrete Production
- Coating & Paints
- Grout & Anchors



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