



INJECTOCARE

Two parts, low viscosity epoxy injection grout



DESCRIPTION

BYZON INJECTOCARE is a solvent free crack injection material composed of very low viscous liquid epoxy resin & hardener system. **INJECTOCARE** 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.

FEATURS & BENEFITS

- Moisture insensitive
- Low creep characteristics
- High compressive, tensile and flexural strengths
- Fast, convenient pumping
- With stands a wide range of chemicals.

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.

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 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 **INJECTOCARE** to fix nipple to crack surface
- The surface of the cracks in between the nipples should be sealed with **INJECTOCARE** 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.

3. Mixing

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

4. Injection

- INJECTOCARE 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

TECHNICAL INFORMATION

PROPERTIES	RESULT
Mixed Appearance	Yellowish Liquid
Mixed Density gm/cm ³ @23°C	1.07 to 1.10
Compressive Strength	40 N/mm ² @1day
Tensile Strength	40 N/mm ² @1day
Flexural Strength	0 N/mm ² @1day
Pot Life @30°C	35 min
Water permeability, %	Nil
Mixing Ratio, by weight	2 : 1 (B:H)

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.

SHELF LIFE

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

PACK SIZE

- › 4.5, 7.5 ,15, 30, 150 Kg set

COVERAGE

- › Coverage will be depends on the depth and width of cracks.

SAFETY PRECAUTIONS

- › Do not inhale
- › Do not smoke when handling this product.
- › Reseal all containers after use and ensure product is stored as instructed.
- › 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.

Note: All technical data tasted in this product data sheet are based on laboratory tests. Actual measured data may vary according to trails and quality of material availability