

Super Inject200

Highly reactive, two component elastic polyurethane injection system

Product Description

Super Inject200 is a two component elastic polyurethane injection system with low viscosity. Specially designed for rapid water stopping and for elastic sealing of cracks in wet and dry conditions, in concrete structures and masonry.

Areas of Application

- Injection and waterproofing of structures subject to water leakage.
- Inject of wet or dry cracks in all types of structural concrete elements, masonry and brickwork.
- Underground construction, constructions above ground, mining, construction work.

Advantages

- Fast reaction with water and reaction completed within a short period of time.
- Solvent free.
- Filler free.
- Excellent bond strength to concrete, masonry and brickwork in wet and dry conditions.
- Good flexibility.
- Due to its low viscosity, has a very high penetration in narrow cracks and cavities.
- Good chemical resistance.
- Outstanding resistance to hydrostatic pressure.
- Non-toxic, suitable for use in contact with potable water.
- Super Inject200 reacts forming a microcellular, closed and resistant structure.



Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Technical Data

Property	
Consistency	Liquid
Density : EN ISO 2811-1 (gr/cm ³)	1.22 ± 0.04
Consistency after mixing	Liquid
Viscosity after mixing @ +23 °C (mPa.s)	200 ± 40
Mix ratio	1 : 1 by volume
Water permeability:	Impermeable
Tensile strength: BS6319	0.7-1.6 MPa
Elongation at break(%) : ASTM D638	About 70 – 85
Bond strength to concrete : ASTM D4541	>2.5 MPa
Slant shear strength : (AASHTO T237)	>5 MPa

Standards

Super Inject200 complies with BS 6920.

Method of use

The injection of Super Inject200 is carried out by equipment and machinery which is normally used in injection operations. The two components of Super Inject200 must be thoroughly mixed in volume ratio 1:1 in a clean, dry container using an appropriate tool (eg. drill with rotating propellers). Always mix the material needed for processing as soon as possible: large quantities of product in fact, due to the development of reaction heat, can lead to a speed reaction increase and a consequent reduction in working times.

Note: The equipment used for the injection before being filled with Super Inject200 must be completely dry and clean, free of the remains of water, or solutions containing alcohol or amine.

Substrate Preparation

The substrate should be cleaned from dust, plaster, oil, grease, plaster, curing compound and corrosion deposits. All cracks to be repaired should be cleaned with compressed air. This should be carried out after drilling of injection holes.

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Injection Holes Drilling and Fixing

- Holes are drilled to install mechanical packers.
- Try to allocate steel re0bars and conduit before drilling.
- The angle which drilling should be is 45 °C or less to the surface and toward the crack.
- Depth of the drill holes intersecting the crack should be somewhat close to the middle of the structure, if possible.
- Distance between drilled holes usually varies from approximately 15 – 60 cm according to width of the cracks (35 cm is commonly used).

Special Requirements

- If concrete thickness 15cm or less, do not attempt angle drilling. Also to minimize concrete damages, nipples will be set into the face of the crack.
- Nipples shall be placed into drilled holes so that top of the rubber sleeve is below concrete surface. Tight the nipple with wrench as much as you can.

Safety Precautions

Refer to the Material Safety Data Sheet for safety measures.

Avoid contact with skin and eyes by using the required personal protective equipment, such as overalls, gloves and safety glasses. If contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly with an eyebath filled with boracic solution and seek medical advice.

Packaging

Super Inject200 is available in 1, 5 and 10 Kg.

Storage

Super Inject200 has a shelf life of 12 months from date of manufacture if stored at temperatures between 10 °C and 30 °C in original sealed packs.

Fire

Super Inject200 is nonflammable.

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