

MONNELI BETOPOXY 200

Low Viscosity Epoxy Injection Resin

Product Description

A fluid epoxy resin, composed of two components that must be mixed before use. After mixing, BETOPOXY 200 transforms into a very fluid mixture that can be injected either with special equipment or by dropping in cracks and micro-cracks. It can also be used as an adhesive for grouting and structural gluing.

It is solvent free and has good dielectric properties, which provides the steel reinforcement with cathodic protection.

Uses

BETOPOXY 200 is used for the following:

- Structural restoring
- Consolidating of damaged concrete for beams, pillars, cement screeds cracks sealing
- Cement screeds cracks sealing
- Vertical and oblique anchorage with high pull out resistance, etc.
- Injecting into concrete and masonry cracks
- To seal and bond cracks widths between 0.2 to 8 mm

Advantages

- Resistant to chemicals
- Very fluid which makes it suitable for injection in fine cracks
- Superior adhesive to substrate
- Impermeable
- Solvent free
- Non shrinkage product
- High mechanical characteristics
- Withstands hot weather conditions
- Excellent adhesion to concrete, brick and masonry

Instructions for Use

Surface Preparation

The support must be perfectly dry, solid, free from inconsistent parts, dust, grease, etc.

Mortar and new concrete must be cured for at least 2 weeks.

Running water must be stopped by using suitable material like MUREX, a rapid setting water plug mortar.

Mixing

Pour component B (hardener) into component A (resin) and mix carefully, with an electric mixer until a homogeneous mixture is obtained.

Application

BETOPOXY 200 should be applied with standard injecting equipment having closed containers. The injection pressure should be at least 3 bar. Use injecting packers which must be inserted into pre-drilled holes along the length of the crack. The distance between packers depends on the crack's width and depth.

After fixing packers use epoxy mortar to seal between packers to allow the resin to penetrate from one point to the next.

For crack injection, it is recommended to assign the job to an injection specialist. In case of partial mixing, maintain the proportions in volume.

For horizontal cracks pour the product directly. For ceiling and cracks bonding apply the product using a roller or brush.

Cleaning

Tools and equipment should be cleaned using SOLVENTE 10 immediately after use. Hardened material should be removed mechanically.

Recommendations

- BETOPOXY 200 should not be used to fill moving cracks.
- BETOPOXY 200 should not be used if there is running water pressure, stop the running water by suitable material before the product is applied.

Technical Data

Properties	Results
Appearance	Liquid
Color	Transparent to yellowish
Density at 25°C	1.05 kg/L
Pot life at 25°C	90 minutes
Compressive strength at 7 days (ASTM C109)	90 N / mm ²
Flexure strength at 7 days	61 N / mm ²
Tensile strength at 7 days	29 N / mm ²
Bond strength (BS 1881)	> 2.5 N/ mm ²
Thermal expansion coefficient	9.1 x 10 ⁻⁵ per °C
Complete curing	7 days
Temperature of application	+5°C to +35°C

All values are subject to 5-10 % tolerance.

Consumption

1.1kg / 1 liter of cavity to fill

Packaging

BETOPOXY 200 is supplied as 1 Liter and 4 Liter Kits.

Storage

It must be kept in dry sealed containers and in dry environment; in these conditions the product will have a shelf life of 12 months.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

The information in this Technical Data Sheet is based on Colmef Monnelli's experience. Colmef Monnelli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monnelli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI
ABU DHABI
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +39 75 9221297 F. +39 75 9221174

BETOPOXY 200
Technical Data Sheet
Edition: January 2020
Revision: 02

colmef@colmef.ae

www.colmef-me.com