

# MonniRep E200

Low Viscosity Epoxy Injection Resin

## Product Description

MonniRep E200 is a fluid epoxy resin, composed of two components that must be mixed before use. After mixing, MonniRep E200 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.

MonniRep E200 is solvent free and has good dielectric properties, which provides the steel reinforcement with cathodic protection.

## Uses

MonniRep E200 is used for the following:

- ▶ Structural restoring
- ▶ Consolidating of damaged concrete for beams, pillars, cement screeds cracks sealing
- ▶ Vertical and oblique anchorage with high pull out resistance, etc.
- ▶ sealing of cracks from 0.1-10mm

## 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

## Usage Instructions

### 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 MonniPlug, a rapid setting water plug mortar.

### Application

MonniRep E200 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.

### Mixing

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

## Cleaning

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

## Technical Data

Category	Typical Values
Appearance	Liquid
Color	Transparent to Yellowish
Density	1.05 kg /L @ 25°C
Pot Life	90 minutes @ 25°C
Compressive strength at 7 days (ASTM C109)	90 N / mm <sup>2</sup>
Flexural Strength at 7 days	61 N / mm <sup>2</sup>
Tensile strength at 7 days	29 N / mm <sup>2</sup>
Bond Strength (BS 1881)	> 2.5 N/ mm <sup>2</sup> (higher than the Tensile Strength of Concrete)
Thermal Expansion Coefficient	9.1x10 <sup>-5</sup> 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

## Legal disclaimer

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## Packaging

MonniRep E200 is supplied as 1 Liter and 4 Liter

## 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.

## Recommendations

- ▶ MonniRep E200 should not be used to fill moving cracks.
- ▶ MonniRep E200 should not be used if there is running water pressure, stop the running water by suitable material before the product is applied

## 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.