

# CONJECT EP

## Low Viscosity Epoxy Injection Resin

### Description:

CONJECT EP is a two component, low viscosity fluid epoxy resin based injection grouting. Once mixed, it transforms into a very fluid mixture that can be injected either with a special pumping equipment or by dripping the mixture in to the cracks to restore structural integrity. It can also be used as an adhesive for gluing structural elements.

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

### Uses:

CONJECT EP is used for structural restoring and consolidating of damaged concrete for beams, pillars, cement screeds cracks sealing, vertical and oblique anchorage with high pull-out resistance, etc.

CONJECT EP is used for injecting into concrete and masonry cracks, cold joints between different concrete pours, fine gaps around anchor bolts loosened due to improper grouting

CONJECT EP is designed to seal and bond cracks widths between 0.2 to 0.8 mm.

### Advantages:

- Resists creep at high service conditions.
- Resistant to chemicals.
- Very fluid which makes it suitable for injection in fine cracks, solvent free
- Superior adhesive to substrate.
- Impermeable.
- Non shrinkage product.
- High elastic modulus – effective transfer of stresses at bond interfaces.

### 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 three weeks.

Running water must be stopped by using suitable material like HYDROPLUG.

#### Mixing:

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

CONJECT EP 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 depend on the crack 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 one. Inject from lowest point or farthest point towards the center checking for the resin coming out of the next hole.

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.

# CONJECT EP

TECHNICAL PROPERTIES	
Color	Transparent to Yellowish
Appearance	thin liquid
Density	1.04 ± 0.03 kg/lit
Potlife	90 minutes@25°C 40 minutes@35°C
Temperature of Application	+5°C to +40°C
Complete Curing	7 days
Compressive Strength after 7 days	70 N/mm <sup>2</sup>
Flexural Strength after 7 days	>2.5 N/mm <sup>2</sup>
Tensile Strength after 7 days	>15 N/mm <sup>2</sup>
Bond Strength	Greater than the tensile strength of concrete

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

## Standards:

- BS 5212: Part 1
- ASTM C 920, Type M, Grade P Class 12

## Consumption:

Usage will depend on the injection pressure and the size of cracks.

## Packaging:

CONJECT EP is supplied as a kit of two components in metallic containers of 4 Ltr. & 10 Ltr Kit.

## Storage Conditions:

Store in original packing in dry conditions away from direct sunlight. Store between 10°C to 38°C. Damaged packing, high humidity or extreme temperatures may reduce the shelf life.

## Shelf Life:

CONJECT EP can be utilized within 12 months of production date if stored under proper conditions in an unopened original packing.

## Cleaning:

Used tools and equipment should be cleaned promptly with ARMOSOLVENT before the product hardens. Hardened material can only be removed mechanically.

## Limitations:

CONJECT EP should not be used to fill moving cracks.

CONJECT EP should not be used if there is running water pressure, stop the running water by suitable material before the product is applied.

## Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

## FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to CONJECT EP Material Safety Data Sheet.

MATEX Rev.02-1221

MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

