# EP GROUT MI

TECHNICAL DATA SHEET

**MOISTURE INSENSITIVE EPOXY RESIN INJECTION GROUT**

## Description

EP GROUT MI is a two part epoxy resin system for grouting gaps ranging from 0.25mm to 10mm. It is an all liquid system consisting of a base and hardener.

## Uses

High strength grouting and fixing of:

- Starter bars, Anchors, Fasteners
- Tie rods
- Crash barrier posts
- Fence and railing posts

Under-grouting and bedding of:

- Precision seating of base plates
- Machine bases, seat base plates for light and heavy machinery including heavy impact and vibratory machinery, reciprocating engines, compressors, pumps, presses, etc.
- Bridge bearings, Mechanical joints (i.e. road, bridge, deck etc.),Crane rails.
- Ballast less rail tracks having high density.

## Advantages

- Moisture insensitive
- Low creep characteristics
- High compressive, tensile and flexural strengths
- Fast, convenient pumping with early strength gain
- Withstands a wide range of chemicals
- Good adhesion to salt-water immersed, cementitious substrates
- High density ensures good water displacement
- Good mechanical underwater strengths

## Technical Data

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|---|---|
| Mixed density @ 27°C | Approx 1.06 gm/cc |
| Pot life @ 35°C | 60 minutes |
| Compressive strength as per ASTM D695<br>1 day<br>7 days | <br><br>Approx 60N/mm2<br>Approx 80N/mm2 |
| Tensile strength:7 days (IS 9162) | 20 N/mm2 |
| Flexural strength :7 days (IS 9162) | 45 N/mm2 |

**Chemical resistance** - EP GROUT MI is resistant to oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water.

**Exotherm** - All epoxy systems will develop a temperature rise on mixing. Its extent will be a function of the volume to surface ratio, the ambient temperature as well as the mass and thermal conductivity of the surrounding materials. Contact FCSC for specific data on each product. representative shall be contacted for specific data.

## Application information

### Surface preparation

Prepare the surface and seal the cracks with a sealing compound which can also be used for bonding injection nipples. Depending on the crack width and depth the distance between nipples should be 200 to 500 mm.

### Mixing and placing

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power mixer for 60 seconds. Use a suitable pressure pump for injecting the material into cracks. After 24 hours remove the nipples and seal the holesor voids with more sealing the compound and allow to cure.

### For filling cracks of more than 10mm and using as an epoxy mortar

EP GROUT MI has to be mixed with clean graded quartz sand from 1:3 to 1:6 parts by weight depending on the consistency required. Mixing can be done with a paddle fitted to a drilling machine.

Typical properties are as follows :

Compressive strength (N/mm2) @ 7 days : 50

Tensile strength ( N/mm2) : 3 - 4

Flexural strength ( N/mm2) : 10

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## Packaging

1.5 ltr of composite pack (Base + Hardener= 1+0.5))

## Storage and Shelf Life

12 Months if sealed pack and stored under cool and dry shaded area.

## Cleaning

All tools and equipment should be cleaned immediately after use with Xylene Sol. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

## Safety precautions

User must read Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## Note

All Technical Data Sheets of FIRST CHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

## Disclaimer

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