



MASTER CHEMICALS TECHNOLOGY

# MC- EPO INJECT

## Epoxy Injection Resin

### Description:

**MC- Epo Inject** is a two component solvent free epoxy material designed for numerous injection and sealing needs; complies with ASTM C881 Type 1 , Grade 1 Class B & C

### Uses:

**MC-Epo Inject** is used for Injection of vertical and horizontal cracks in concrete.

### Advantages:

- ◆ Excellent adhesive for pressure injection of fine cracks.
- ◆ Moisture insensitive for bonding to dry or damp surfaces.
- ◆ Provides a tough, weather resistant seal for porous concrete
- ◆ Penetrates deep into concrete cracks

### Technical Data:

Solid % (by volume)	: 99 - 100 %
Specific gravity (at 25°C)	: 1.1 g/cm <sup>3</sup>
Mixing ratio	: 2:1 by weight
Pot life ( Gel time )	: 30 min at 25 °C
Packing	: 6kg pail (base 4, curing 2kg)
Shelf life	: 12 months ( in good storage conditions)
Touch dry time	: 2 – 5 hrs ( depends on temp. )
Viscosity	: 300 – 500 cps
Compressive strength ( 28 days )	: 750 Kg / cm <sup>2</sup>
Tensile strength ( 28 days )	: 390 Kg / cm <sup>2</sup>
Flexural strength ( 28 days )	: 500 Kg /cm <sup>2</sup>
Bond strength	: 140 Kg / cm <sup>2</sup> (to concrete after 2 days)
Water absorption	: < 1 %

## **Method Statement :**

### **Crack preparations**

Remove deteriorated parts from the crack to depth of 5mm ( max ) minimum age of new concrete is 28 days .

### **Mixing**

Thoroughly mix the component A with B according to the mixing ratio

### **Method of application**

**MC-Epo Inject** can be gravity fed or pressure injected into horizontal cracks. Vertical and overhead cracks must be pressure injected. Areas around the entry part and the crack between ports should be sealed. Inject the neat material with an epoxy injection machine or other mechanical means.

After mixing pour or squeeze epoxy into cracks and allow seeping in. Continue to apply material until crack is full.

### **Cleaning**

For cleaning tools and equipment's use a suitable epoxy thinner.

## **Safety precautions**

The following notes should be considered when using MC-Coating materials.

- ◆ Take precaution to prevent material entering the eyes.
- ◆ Take precautions to avoid skin contact.
- ◆ Provide adequate ventilation.
- ◆ Keep away from sparks and flames ( for solvent containing materials).

*For more details contact **Master Chemicals Technology** technical department*

*Or visit our website [www.mc.com.eg](http://www.mc.com.eg)*