

# MEGAPOXY MC

## HEAVY DUTY MAINTENANCE COATING

### APPLICATIONS

- Corrosion protection of steel.
- Protective coating of concrete.
- Coating of storage tanks for chemicals, foodstuffs, fuel etc.
- Hygienic and dust free floor and wall coatings.

### DESCRIPTION

Megapoxy MC is a heavy duty epoxy maintenance coating. Normally it is applied in three coats giving a total 0.4 to 0.5 mm dry film thickness, which is resistant to abrasion, impact and wide range of chemicals.

Megapoxy MC can be applied by airless spray equipment, roller or brush. The working time is sufficiently long (2 hours) to make the use of twin spray heads unnecessary.

Mixing proportions	4 parts "A" to 1 part "B" by weight
Working time	2 hours at 25°C
Tack free time	4 hours at 25°C
Re-coating time	4-12 hours at 25°C
Coverage per 5 kg	20-25 m <sup>2</sup>

### APPLICATION

To promote easy working up to 10% Megapoxy Thinners can be added to the mix. However, care must be taken to ensure that all thinners has evaporated before applying second coat. Thinners must not be used in second or subsequent coats.

### AVAILABILITY

Megapoxy MC is available in 5.0 kg (approx 4 litre) and 20 kg (approx 16 litre) kits in White, Grey, Koala grey, Dark Grey, Blue, Pacific Blue, Safety Yellow and Black.

### SURFACE PREPARATION

#### METALS

Metals should be grit blasted to AS CK 9.4 - 1964 Class 3 finish. If this is not possible, mechanically abrade to clean bright metal surface and degrease by flooding the abraded surface with Megapoxy Degreaser. Wire brushing is not entirely satisfactory and gives minimal adhesion only.

#### CONCRETE

Concrete should be free from grease and oil. If necessary, clean with industrial heavy duty degreaser. When clean, remove surface laitence. This is best done by mechanical abrasion such as scabbling, grit blasting or grinding. If this is not possible acid etching must be carried out. Mix concentrated hydrochloric acid with equal volume of water and spread at the rate of 0.5 litre per square metre (m<sup>2</sup>) of concrete surface. Allow to react for about 10 minutes and wash the area thoroughly and scrub with a stiff bristled broom to remove loose sand. Allow to dry for 24 hours. For maximum adhesion concrete should be surface dry.

#### PAINTED SURFACES

##### METALS

Steps should be taken to remove all paint. Good quality paint stripper should be used, followed by grit blasting.

##### CONCRETE

The surface may be either flame-cleaned, or mechanically treated with a scutching tool. Complete the preparation by grinding or scabbling.



### MEGAPOXY MC CHEMICAL RESISTANCE

The following information is based on tests conducted under continuous immersion conditions. In practice Megapoxy floor and wall coatings are cleaned regularly; exposure to chemicals is limited to few hours at a time and the severity of attack is correspondingly reduced. In the case of tank and storage vessel coatings Megapoxy MC film is continuously exposed to chemicals. The data given apply to this condition.

#### CHEMICALS WHICH HAVE NO EFFECT ON MEGAPOXY MC COATINGS

Distilled water at 40°C, Petrol, Power kerosene, Diesel fuel, Crude oil, Toluene, MIBK, Carbon tetrachloride, Styrene monomer, Glycerine, Hydrochloric acid all concentrations to 31%, Sulphuric acid all concentrations to 70%, Chromic acid 1%, Acetic acid 5%, Tartaric acid 5%, Citric acid 5%, Linseed fatty acid, Sodium hydroxide all concentrations, Ammonium hydroxide all concentrations to 15%, Detergent 100% liquid, Sodium carbonate 10%, Sodium bisulphate 10%, Methylated spirits, Coca-Cola.

#### CHEMICALS TO WHICH MEGAPOXY MC COATINGS HAVE LIMITED RESISTANCE ONLY

Distilled water, boiling	Unaffected for 2 weeks, then blistered and film broke down after 1 month
Nitric acid all concentrations to 55%	Unaffected for 80 days, then film broke down
37% Formaldehyde	Unaffected for 3 months, then film broke down
Vinegar	Unaffected for 1 week, then film broke down
Sulphuric acid concentrated	Complete break down in one day
Phosphoric acid 57%	Unaffected for 80 days, then film broke down
Lactic acid 5%	Unaffected for 15 days, then film broke down
Cresylic acid and Phenol	Film break down after one day
Benzyl alcohol	Unaffected for 50 days, then film broke down
Sodium hypochlorite 4%	Unaffected for 60 days, then film broke down