

Megapoxy MC

PROTECTIVE COATING

Description

MEGAPOXY MC is heavy-duty solvent free epoxy coating system. It is suitable for application to vertical surfaces and cures to a tough, smooth, hygienic film, resistant to abrasion, impact, and a wide range of chemicals.

Typical Uses

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

Features

- ⊕ Excellent chemical resistance
- ⊕ Easy to mix pre-measured kits
- ⊕ Hygienic, smooth surface
- ⊕ Tough, abrasion resistant film
- ⊕ Excellent adhesion to most substrates
- ⊕ Available in white and grey [other colours available on request]
- ⊕ Long pot life

Packaging

5 kilogram kit. Part A- 4 kg, Part B- 1 kg.

Technical Data

Product as supplied

- ⊕ Part A epoxy resin - clear or grey liquid [other colours available on request]
- ⊕ Part B formulated hardener – thin amber liquid

Mix Ratio

3 parts A to 1 part B by Volume

Cured Properties

- ⊕ Density approx.: 1.3 kg per litre
- ⊕ Maximum Operating Temp: 70°C

Chemical Resistance

The following information is based on tests conducted under continuous immersion conditions. In practice floor and wall coatings are cleaned regularly, exposure to chemicals is limited to a few at a time and severity of attack is correspondingly reduced. In the case of tank and storage vessel coatings exposed to chemicals, the data given applies 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, glycerin, hydrochloric acid concentrations up to 30%, sulphuric acid to 50%, chromic acid 1%, acetic acid 5%, tartaric acid 5%, citric acid 5%, linseed fatty acid, sodium carbonate 10%, sodium bisulphate 10%, methylated spirits, Coca-Cola.

Chemicals to which Megapoxy MC coatings have limited resistance;

- ⊕ Boiling distilled water
- ⊕ Nitric acid
- ⊕ Formaldehyde
- ⊕ Acetic/Ethanoic acid
- ⊕ Phosphoric acid
- ⊕ Lactic acid
- ⊕ Benzyl alcohol
- ⊕ Sulphuric acid
- ⊕ Sodium hypochlorite

Application Notes - General

Preparation

Good adhesion can only be achieved if proper pretreatment of surfaces to be bonded is carried out. With the exception of concrete, surfaces should be degreased, grit blasted or mechanically abraded and degreased again. Wire brushing is not adequate and will produce only minimal adhesion.

Preparation – Concrete

The surface must be free of grease, oil and other contaminants. If necessary, clean with industrial grade degreasing agent. Once clean, step must be taken to remove laitance, this is best achieved by grit blasting, however mechanical abrasion and acid etching are

alternatives. Priming of surface with Megapoxy HX is recommended if the surface has been recently wet or is of inferior quality.

Mixing and Placement

Pour contents of Part B into Part A in correct proportions and mix thoroughly for 3-5 minutes with a power mixer, ensuring all material around bottom and sides of container is incorporated. Do not aerate mix. If using fillers or pigments, add and mix again. Megapoxy MC can be applied with airless spray equipment, roller or brush. To promote easy working, Megapoxy thinners can be added to the mix. However, care must be taken to ensure that all thinners have evaporated before applying the next coat. Thinner is not to be used in the second or subsequent coats, each 0.25mm thick, be applied (giving a total 0.75mm dry film thickness. To ensure complete and even coverage, alternate colours can be used. Allow applied coat to firm before the next coat but before it has become too hard to indent with a finger nail (usually within 12 hours). Do not apply at temperatures below 10°C.

Use of Glass Fibre Reinforcement

Megapoxy MC may be used in conjunction with glass fibre reinforcement to increase thickness or bridge fine cracks in the substrate. The glass cloth should be laid on the first coat whilst still wet, and then pressed in and smoothed out using a squeegee and washer roller. Subsequent coats can then be applied.

Working Time (Pot Life)

120 minutes at 25°C
60 minutes at 35°C

Cure Time

48 hours at 25°C

Recoating Time

4 – 12 hours at 25°C

Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy MC can be removed using Megapoxy Thinners. Once the product has cured only severe heat or prolonged immersion in a powerful solvent will break it down.

Storage

MEGAPOXY MC has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15°C to 30°C.

Safety Precautions

Avoid contact with uncured product at all times. Use protective clothing including safety glasses and apply a barrier cream to skin areas that could be exposed. Refer to Material Safety Data Sheets for further information.

First Aid

If swallowed, DO NOT induce vomiting, give a glass of water and contact a Doctor or the Poisons Information Centre. If in eyes, hold eyes open and flood with copious amounts of clean water for at least 15 minutes and contact a Doctor. If skin contact occurs, remove contaminated clothes and wash skin with soap and warm water. If allergic response (irritation, wheezing, etc.) occurs seek medical advice. Refer to Material Safety Data Sheets for further information.

NOTE

As conditions may vary considerably in consuming industries, buyers and users must assess this product's performance for their own requirements.

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