

Megapoxy MC

PROTECTIVE COATING

Description

MEGAPOXY MC is a 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 or grey colors, other colors produced on request
 Long pot life

Packaging

5 kg Kit: Part A- 4 kg
 Part B- 1 kg

Technical Data

Product as supplied

Part A Formulated epoxy resin - white or grey liquid.
 Other colors produced on request
 Part B Formulated hardener - thin clear liquid

Mix Ratio

3 parts A to 1 part B by Volume

Cured Properties

Density - approx. 1.3 kg per litre
 Maximum Operating Temperature 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 hours at a time and 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 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 concentrations 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 ONLY

Boiling distilled water	Unaffected for 2 weeks, then blistered & broke down after one month
Nitric Acid to 55%	Unaffected for 80 days, then film broke down
Formaldehyde 37%	Unaffected for 3 months, then film broke down
Vinegar	Unaffected for 1 week, then film broke down
Phosphoric acid 57%	Unaffected for 15 days, then film broke down
Lactic acid 5%	Unaffected for 15 days, then film broke down
Benzyl alcohol	Unaffected for 50 days, then film broke down
Sulphuric acid	Complete break down after 1 day
Sodium hypochlorite 4%	Unaffected for 60 days, then film broke down

Application Notes - General

Surface Preparation - General

Good adhesion can only be achieved with proper pretreatment of surfaces. With the exception of concrete, surfaces should be degreased, grit blasted or mechanically abraded and degreased again. Wire brushing is not satisfactory giving minimal adhesion only. Consult manufacturer for other pretreatments.

Surface Preparation – Concrete

Concrete should be free of grease, oil and other contaminants. If necessary, clean with industrial grade degreasing agent. Once clean steps must be taken to remove laitance, grit blasting or mechanical abrasion best does this. 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 and mix thoroughly for 3-5 minutes with a power mixer, or flat stirrer by hand, ensure all material around bottom and sides of container is incorporated. Do not aerate mix. Megapoxy MC may be applied with airless spray equipment, roller or brush. To promote easy working up to 5% 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. Where chemical resistance is required it is recommended that three coats each 0.25 mm thick be applied, giving 0.75 mm dry film thickness. To ensure complete and even coverage, alternate colors can be used. Allow applied coat to firm before next coat but before it has become too hard to indent with 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 squeegee and washer roller. Subsequent coats can then be applied.

Working Time (Pot Life)

120 minutes at 25°C

60 minutes at 35°C

Tack Free Time

4 hours at 25°C

Recoating Time

4 - 12 hours at 25°C

Cure Time

48 hours at 25°C

Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured 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 20°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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