

Megapoxy HX

Low Viscosity Penetration Epoxy

Description

MEGAPOXY HX is a very low viscosity 100% reactive hydrophilic epoxy resin using recent advances in epoxy resin technology for superior penetration into substrates.

Typical Uses

Repair of cracked concrete by gravity penetration or low-pressure injection. (Refer to Crack Injection Techniques for Megapoxy Epoxy Systems for further details)

Concrete, masonry and timber sealer/waterproofer

Primer for flooring and sealant applications

Binder for floor toppings

New to old concrete binder

Grouting bolts, reinforcement, stanchions and other inserts into concrete

Laminating resin for fibre glassing

Features

Very low viscosity and enhanced penetration

Easy to mix pre-measured kits

Dries clear

Bonds to wet surfaces

High mechanical strengths

Excellent chemical resistance

Excellent wet out characteristics for fibreglass

Packaging

Available in 2 sizes:

4 litres Kit. Part A - 3 litres, Part B- 1 litre

20 litres Kit. Part A - 15 litres, Part B- 5 litres

Technical Data

Product as supplied

Part A Epoxy resin - thin clear liquid

Part B Formulated hardener - thin clear liquid

Mix Ratio

3 parts A to 1 part B by Volume

Cured Properties

Density: approx. 1.1 kg per litre

Maximum Operating Temperature: 100°C

Compressive Strength: 95 mPa (ASTM D695-96)

Tensile Strength: 50 mPa

Flexural Strength: 35 mPa

Tensile Bond Strength: 12 mPa (ASTM D1002-96)

Application Notes - General

Surface Preparation - General

Good adhesion can only be achieved with proper pre-treatment 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.

Surface Preparation – Concrete

The surface must 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, this is best done by grit blasting, mechanical abrasion or acid etching are alternative methods.

Surface Preparation - Timber

Surface must be free of oils, grease and other contaminants. Acetone or lacquer thinners (toluene) works well on most contaminants (do not use paint thinners, alcohol or petrol) Abrade surfaces with 80-grit aluminium oxide paper.

CAUTION! Follow all safety precautions when using solvents

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. Do not apply at temperatures below 15°C.

Working Time (Pot Life)

60 minutes at 25°C

30 minutes at 35°C

Cure Time

24 hours at 25⁰C

Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured HX 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 HX has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15⁰C to 20⁰C.

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 Center. 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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