

Megapoxy HT

Description

MEGAPOXY HT is specially formulated non-sag, hydrophilic epoxy gel. This product gives excellent results where superior strength bonds are required. It can be applied in thick films, on overhead surfaces and under damp conditions. A mix of one part Megapoxy HT to two parts graded sand (Silica 30/100) makes an ultra strong mortar for concrete patching and grouting applications.

Typical Uses

Grouting steel bars and other metal inserts into concrete

Rejoining and repairing concrete and masonry

Lining concrete or steel where chemical resistance is required

Waterproofing concrete structures

Underwater repairs

New to old concrete adhesion

Features

Approved for contact with potable water

Mixes easily

Solvent free (100% solids)

High bond strength

Adheres and cures under water

Withstands impact loading

Very good chemical resistance

Impervious to water as continuous film

Packaging

Available in two sizes:

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

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

Technical Data

Product as supplied

Part A Filled epoxy resin - translucent gel

Part B Formulated hardener - clear liquid

Mix Ratio

3 parts A to 1 part B by Volume

4 parts A to 1 part B by Weight

Cured Properties

Density: approx. 1.1 kg per litre.

Maximum Operating Temperature: 100 °C.

Compressive Strength (Ultimate): 100 MPa

Tensile Strength: 40 MPa

Flexural Strength: 40 Mpa

Tensile shear strength: steel/steel 13 MPa

Modulus of Elasticity: 1.1 x 10,000 Mpa

Application Notes - General

Surface Preparation - General

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. Degreasing can be achieved using a solvent such as methylene-chloride, acetone, lacquer thinners (toluene) or trichloroethane, do not use alcohol, petrol or paint thinners. Wire brushing is not satisfactory giving minimal adhesion only.

Surface Preparation – Concrete

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

CAUTION! Follow all safety precautions when using solvents

Mixing and Placement

Measure accurate proportions and mix thoroughly by hand using a paddle or mechanically using a low speed paddle mixer. Avoid aeration of the mix. When making mortar, mix as above and then add aggregate and mix thoroughly. Apply to both surfaces to be bonded. Do not use high clamping pressures as glue starved joints and failure may occur. Do not apply at temperatures below 10°C.

When applying underwater the product must be worked into the surface, this can be achieved by placing mixed HT between plastic sheets and pushing off one sheet on to repair site and then working in and smoothing out with the top sheet of plastic. Leave plastic in place until the HT has cured.

Working Time (Pot Life)

30 minutes at 25°C
15 minutes at 35°C

Cure Time

24 hours at 25°C

Cleaning

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

Storage

MEGAPOXY HT 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. Technical advice from the manufacturer should be sought if in doubt.

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Update 12/07