

Megapoxy HT

STRONG HYDROPHILIC EPOXY GEL

Description

MEGAPOXY HT is a 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 in damp conditions. A mix of one part Megapoxy HT to two parts graded sand (Silica 30/100) makes a very 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

- ⊕ Mixes easily
- ⊕ Solvent free (100% solids)
- ⊕ High bond strengths
- ⊕ Adheres and cures underwater
- ⊕ 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 litre

20 Litres kit: Part A – 15 litres, Part B – 5 litres

Technical Data

Product as supplied

- ⊕ Part A epoxy resin – translucent gel
- ⊕ Part B formulated hardener – 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 (Ultimate): 100 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 by 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 an adequate surface preparation and will produce 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 achieved by grit blasting. Alternatives are mechanical abrasion and acid etching.

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 again. 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.

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 Megapoxy HT 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 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.

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