

Megapoxy P1

EPOXY PASTE

Description

MEGAPOXY P1 is a specially formulated non-sag epoxy paste based on DEGBA epoxy resin with carbonate free filler. Megapoxy P1 was specifically designed for repairs and sealing of concrete subject to continuous immersion in water. P1 is suitable for bonding, filling and repairs to most materials of construction.

Typical Uses

Bonding, filling and repairs to most materials of construction including:

- Fibre cement sheet and pipes
- Bricks and ceramics
- Concrete
- Cast iron and other metals
- Fibreglass

Features

- Simple 1:1 mix ratio
- Mixes easily
- Solvent free
- High bond strengths
- Gap Filling and non-sag on vertical surfaces
- Adheres and cures under adverse conditions (cold and damp)
- Tensile and compressive strengths superior to concrete
- Good chemical resistance

Packaging

- Available in two sizes in resealable plastic pails:
- 4 litres Kit. Part A- 2 litres, Part B- 2 litres
- 20 litres Kit. Part A- 10 litres, Part B- 10 litres

Technical Data

Product as supplied (grey)

- Part A Filled epoxy resin - white paste
- Part B Formulated hardener - black paste

Mix Ratio

1 part A to 1 part B by Volume

Cured Properties

- Density - approx. 1.5 kg per litre
- Maximum Operating Temperature – 70°C
- Compressive Strength (Ultimate) - 80 MPa
- Tensile Strength - 14 MPa
- Tensile Bond Strength - 10 MPa
- Flexural Strength - 18 MPa
- Water absorption - ASTM D570 - 5 years at 25°C
- Coefficient of Linear Expansion - 60×10^{-6} mm/mm°C

Application Notes

Surface Preparation - General

Good adhesion can only be achieved with proper pretreatment surfaces. 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 etc; do not use alcohol, petrol or paint thinners. Wire brushing is not satisfactory giving minimal adhesion only.

Surface Preparation – Concrete

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.

CAUTION! Follow all safety precautions when using solvents.

Mixing and Placement

Measure accurate proportions and mix thoroughly by trowel on a flat sealed board until uniform color. Avoid aeration of the mix. 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)

- 60 minutes at 25°C
- 30 minutes at 35°C

Cure Time

24 hours at 25°C

Clean Up

Spillages and excess should be cleaned up as soon as possible. Uncured Megapoxy P1 can be removed using Megapoxy Thinners or warm soapy water. Once the product has cured only severe heat or prolonged immersion in a powerful solvent will break it down.

Storage

MEGAPOXY P1 has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15 to 25°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 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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