

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 ceramic
 - Concrete
 - Cast iron and other metals
 - Fiberglass

Features

- ⊕ Simple 1:1 mix ratio
- ⊕ Mixes easily
- ⊕ Solvent free
- ⊕ High bond strengths
- ⊕ Gap filling and non-sag on vertical surfaces
- ⊕ Tensile and compressive strengths superior to concrete
- ⊕ Good chemical resistance

Packaging

Available in two sizes in resealable plastic pails:
4 litre kit. Part A – 2 litres, Part B – 2 litres
20 litre kit. Part A – 10 litres, Part B – 10 litres

Technical Data

Product as supplied

- ⊕ Part A 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: $60 \times 10^{-6} \text{mm/mm}^\circ\text{C}$

Application Notes - General

Preparation

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. Wire brushing is not adequate and will produce only minimal adhesion.

Preparation – Concrete

The surface must be free of grease, oil and other contaminants. If necessary, clean with industrial grade degreasing agent. Once clean, step must be taken to remove laitance, this is best achieved by grit blasting, however mechanical abrasion and acid etching are alternatives.

Mixing and Placement

Premix Part A compound to ensure any settled material is recombined. Pour contents of Part B into Part A in correct proportions and mix thoroughly for 3-5 minutes with a power mixer, ensuring all material around bottom and sides of container is incorporated. Do not aerate mix. If using fillers or pigments, add and mix again. 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

Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy P1 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 P1 has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15°C to 30°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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