

Megapoxy PF

RAPID SET EPOXY PASTE

Description

MEGAPOXY PF is a rapid set epoxy adhesive. It gives almost immediate high strength bonds to concrete, steel, natural stone and most other materials of construction.

Typical Uses

Bonding and repairs to most materials of construction including;

- ⊕ Fibre cement sheet and pipes
- ⊕ Concrete, bricks and ceramics
- ⊕ Metals
- ⊕ Granite and Marble
- ⊕ Fibreglass
- ⊕ Timber

Features

- ⊕ Simple 1:1 mix ratio
- ⊕ Sets in 7 minutes and can be sanded after 30 minutes
- ⊕ Solvent free
- ⊕ High bond strengths
- ⊕ 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 – cream or black paste

Mix Ratio

1 parts A to 1 part B by Volume

Cured Properties

- ⊕ Density approx.: 1.1 kg per litre
- ⊕ Maximum Operating Temperature: 70°C
- ⊕ Compressive Strength (Ultimate): 80 MPa
- ⊕ Tensile Strength: 25 MPa
- ⊕ Tensile Bond Strength: 10 MPa
- ⊕ Flexural Strength: 18 MPa
- ⊕ Coefficient of Linear Expansion: $40 \times 10^{-6} \text{mm/mm}^{\circ}\text{C}$
- ⊕ Water absorption: ASTM D570 – 10 days at 25°C: 0.5% by weight

Application Notes - General

Preparation

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

Surface Preparation – Concrete

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).

Mixing and Placement

Measure accurate proportions and mix thoroughly by trowel on a flat sealed board until the colour is uniform. Avoid aeration of the mix. Apply to both surfaces to be bonded. Do not use high clamping pressures as flue starved joints and failure may occur. Do not apply at temperatures below 10°C.

Working Time (Pot Life)

3 minutes at 25°C

Cure Time

1 hour minimum, at 25°C
4 hours at 25°C for full cure

Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy PF 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 PF 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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