Megapoxy PF Gel

RAPID SET EPOXY GEL

Description

MEGAPOXY PFgel is a rapid set, epoxy adhesive. It gives fast high strength bonds to timber, metals, natural stone and most other materials of construction. Plastics require special pretreatment and the manufacture should be consulted for this information.

Typical Uses

Bonding and repairs to most materials of construction including:

Fibre cement sheet and pipes

Bricks and ceramics

Timber

Granite and Marble

Fibreglass

Metals

Features

Simple 1:1 mix ratio

Sets in 10 minutes and can be sanded after 30 minutes

Solvent free

High bond strengths

Gap Filling

Adheres and cures under adverse conditions (cool and damp)

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

Part A Filled epoxy resin - white translucent gel

Part B Formulated hardener - amber translucent gel

Mix Ratio

1 part A to 1 part B by Volume

Cured Properties

Density: approx. 1.0 kg per litre

Maximum Operating Temperature: 70^0C

Compressive Strength (Ultimate): 70 MPa

Tensile Strength: 25 MPa

Tensile Bond Strength: 10 MPa

Flexural Strength: 18 MPa

Coefficient of Linear Expansion: 50×10^{-6} mm/mm^{0}C

Water absorption: ASTM D570 -10 days at 25^0C: 0.5 % by weight

Application Notes

Surface Preparation - General

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 generally 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.

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 colour. 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 10^0C.

Working Time (Pot Life)

3 minutes at 25^0C

Cure Time

1-hour minimum at 25^0C

4 hours at 25^0C for full cure

Clean Up

Spillages and excess should be cleaned up as soon as possible. Uncured Megapoxy PFgel 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 PFgel has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15 to 25^0C.

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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