Megapoxy PF GEL

RAPID SET EPOXY GEL

Description

MEGAPOXY PF GEL 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 manufacturer should be consulted for this information.

Typical Uses

- Bonding 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, 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 three sizes in resealable plastic pails.
1 Litre Kit. Part A – 500mL, Part B – 500mL
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 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
- Coefficient of Linear expansion: 50 x 10^{-6}mm /mm ^{o}C
- Water absorption: ASTM D570 - 10 days at 25^0C: 0.5% by weight

Application Notes - General

Preparation

Good adhesion can only be achieved with proper pretreatment of surfaces to be bonded. 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 methlene-chloride, acetone, lacquer thinners (toluene) or trichloroethane, etc. Do not use alcohol, petrol or paint thinners. Wire brushing is not considered sufficient to encourage good adhesion.

Concrete 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 achieved by grit blasting - mechanical abrasion or acid etching are alternatives.

Caution! Follow all safety precautions when using solvents.

Mixing + Placement

Measure accurate proportions and mix thoroughly by trowel or a flat sealed board until a uniform colour is achieved. Apply to both surfaces to be bonded. Do not use high clamping pressures as this may result in glue starved joints (and adhesion failure). Do not apply at temperatures below 10^oC.

Working Time (Pot Life)

3 minutes at 25^0C

Cure Time

1 hour at 25^0C minimum
4 hours at 25^0C for full cure

Cleaning

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

Manufactured by
Vivacity Engineering Pty. Ltd.
A.C.N. 001 666 557
3 Sefton Road Thornleigh NSW 2120
Phone: (02) 875 3044
QUALITY ASSURANCE TO AS 3902
NATA Accreditation. Reg. No. 6219

Distributed by:

Permatech
Phone (08) 9303 4655

Fax (08) 9303 4677
U1/4 Achievement Way
Wangara WA 6065

www.permatech.com.au