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Megapoxy 69 Liquid

HIGH PERFORMANCE EPOXY ADHESIVE

Description

MEGAPOXY 69 LIQUID is a high performance epoxy structural adhesive. This produce gives excellent results where superior strength bonds are required. Megapoxy 69 Liquid retains its high strength after repeated impact forces.

Typical Uses

- Bonding most materials of construction including
  - Concrete + masonry
  - Metals
  - Granite + marble
  - Fiberglass
  - Timber
  - Some plastics with proper pretreatment

Features

- Simple 1:1 mix ratio
- Mixes easily
- Solvent free
- High bond strength
- Waterproof after cure
- Withstands impact loading
- Excellent bonds with low clamping pressures

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 – 10litres, Part B – 10 litres.

Technical Data

Product as supplied

- Part A epoxy resin - clear liquid
- Part B formulated hardener - amber liquid

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: 30 MPa
- Tensile Bond Strength: 15 MPa
- Coefficient of Linear expansion: 60 x 10^{-6}mm /mm ^{o}C

Application Notes - General

Preparation

Good adhesion can only be achieved with proper pretreatment of survaces 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 achieve 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)

45 minutes at 25^0C
25 minutes at 35^0C

Cure Time

24 hours at 25^0C

Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy 69 Liquid 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 69 Liquid 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.

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