

# Megapoxy 69

## HIGH PERFORMANCE EPOXY ADHESIVE

### Description

MEGAPOXY 69 is a clear non-sag gel consistency epoxy structural adhesive. This product gives excellent results where superior strength bonds are required. Megapoxy 69 retains its high strength after repeated impact forces.

### Typical Uses

Bonding most materials of construction including:

Concrete and Masonry

Metals

Granite and 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 re-sealable 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 - translucent white gel

Part B Formulated hardener - translucent amber 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 °C

Compressive Strength (Ultimate): 70 MPa

Tensile Strength: 30 MPa

Tensile Bond Strength: 15 MPa

Coefficient of Linear Expansion:  $60 \times 10^{-6}$  mm/mm °C

### Application Notes

#### Surface Preparation - General

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 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

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 color. 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°C.

#### Working Time (Pot Life)

45 minutes at 25°C

25 minutes at 35°C

**Cure Time**

24 hours at 25°C

**Clean Up**

Spillages and excess should be cleaned up as soon as possible. Uncured 69 can be removed using warm soapy water or Megapoxy Thinners. Once the product has cured only severe heat or prolonged immersion in a powerful solvent will break it down.

**Storage**

**MEGAPOXY 69** has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15°C - 25°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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