

## Megapoxy 84

### HIGH TEMPERATURE RESISTANT EPOXY PASTE

#### Description

MEGAPOXY 84 is a specially formulated solvent free epoxy paste adhesive suitable for elevated service temperatures.

#### Typical Uses

Bonding ceramic tiles to steel or concrete where elevated temperatures will be encountered.

#### Features

- ⊕ Mixes easily
- ⊕ Solvent free
- ⊕ High bond strengths
- ⊕ Gap filling and non-sag on vertical surface
- ⊕ High tensile and compressive strengths
- ⊕ Good chemical resistance

#### Packaging

2.5 Litres kit: Part A – 2 Litres, Part B – 0.5 Litres

#### Technical Data

##### Product as supplied

- ⊕ Part A epoxy resin - white paste
- ⊕ Part B formulated hardener – blue liquid

##### Mix Ratio

4 parts A to 1 part B by volume  
100 grams Part A to 22.7 grams Part B by weight

##### Cured Properties

- ⊕ Maximum Operating Temperature: 120°C
- ⊕ Compressive Strength (Ultimate): 110 MPa
- ⊕ Tensile Strength: 61 MPa
- ⊕ Flexural Strength: 15 MPa
- ⊕ Coefficient of Linear Expansion:  $60 \times 10^{-6}$  mm/mm °C

#### Application Notes - General

##### Surface Preparation - General

Good adhesion can only be achieved if proper pretreatment of surfaces to be bonded is carried out. With the exception of concrete, surfaces should be

degreased, grit blasted or mechanically abraded and degreased again. Wire brushing is not adequate and will produce only minimal adhesion.

##### Preparation – Concrete

The surface must be free of grease, oil and other contaminants. If necessary, clean with industrial grade degreasing agent. Once clean, step must be taken to remove laitance, this is best achieved by grit blasting, however mechanical abrasion and acid etching are alternatives.

##### Mixing and Placement

To avoid errors in measuring components it is advisable to mix the whole kit (2.5kg) at a time. Pour the entire contents of Part B into Part A container and mix thoroughly with a flat spatula or putty knife. To ensure thorough blending of the components mix for 5 minutes and continually scrape the bottom and sides of the container.

Apply the mixed Megapoxy 84 to the steel or concrete surface at the rate of 1.25 litres per square metre with a notched trowel. Place ceramic tile into the adhesive and press to ensure good even contact. The adhesive can be cleaned up using warm soapy water to achieve a tidy application.

##### Working Time (Pot Life)

60 minutes at 25°C  
30 minutes at 35°C

##### Cure Time

72 hours at 25°C

##### Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy 84 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 84 has a shelf life exceeding one year sealed in the original containers and stored in a dry environment at 15°C to 20°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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