

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 (white)

Part A Filled epoxy resin - white paste

Part B Formulated hardener - blue liquid

Mix Ratio

4 parts A to 1 part B by Volume

100 gms part A to 22.7 gms 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: 60×10^{-6} mm/mm°C

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. Steel should be cleaned to "white metal," wire brushing is not satisfactory giving inferior adhesion.

Surface Preparation – Concrete

Must 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 or mechanical abrasion to expose firmly held aggregate.

CAUTION! Follow all safety precautions when using solvents

Mixing and Placement

To avoid errors in measuring components it is advisable to mix the whole kit (2.5 litres) at a time. Pour the entire contents of Part B into the 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

Curing

Megapoxy 84 will set after approximately 4 hours at room temperature. The initial product tends to be brittle at first but develops toughness after 48 hours. Avoid exposure to elevated temperature during this period.

Cure Time

72 hours at 25°C

Then gradually raise temperature to service temperature.

Clean Up

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

Manufactured by

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