

# Megapoxy 34

## ELECTRICAL WINDING IMPREGNATION EPOXY

### Description

MEGAPOXY 34 is a specially formulated epoxy system for impregnating and encapsulating electrical components.

### Typical Uses

Encapsulation of electronic components  
Impregnation of electrical coils and windings  
Splicing Cables

### Features

High impact resistance  
Low viscosity  
High mechanical strengths  
Excellent chemical resistance  
Excellent electrical properties

### Packaging

2 kg kit or 18 kg kit

### Technical Data

#### Product as supplied

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

#### Mix Ratio

4 parts A to 3 parts B by Volume  
4 parts A to 3 parts B by Weight

#### Cured Properties

Density approx.: 1.08 kg per litre  
Maximum Operating Temperature: 150°C  
Compressive Strength (Ultimate): 110 MPa  
Impact Strength, IZOD: 7 Joules  
Tensile Strength: 60 MPa  
Dielectric Strength 25°C, 50 kHz: 315 KV/cm  
Volume Resistivity, 25°C: 10<sup>13</sup> ohm.cm

### Application Notes - General

#### Preparation

Ensure surfaces are prepared for adhesion or release as desired. Megapoxy 34 will adhere strongly to most clean dry surfaces.

#### Mixing and Placement

Premix Part A compound to ensure any settled material is recombined. Pour contents of Part B into Part A in correct proportions and mix thoroughly for 3-5 minutes with a power mixer, or flat stirrer by hand, ensure all material around bottom and sides of container is incorporated. Do not aerate mix. Allow mixed material to stand for 2 - 3 minutes for any air to escape then pour into mould or winding in slow stream avoiding air entrapment. Do not apply at temperatures below 10°C.

#### Working Time (Pot Life)

30 minutes at 25°C

#### Cure Time

24 hours at 25°C

#### Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy 34 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 34 has a shelf life exceeding two years sealed in the original containers and stowed 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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