

# Megapoxy 55

## LOW VISCOSITY CASTING EPOXY

### Description

MEGAPOXY 55 is a specially formulated unfilled epoxy encapsulating and casting system. It offers high impact resistance with excellent electrical properties.

### Typical Uses

Encapsulation of electrical power transformers  
Electrical power cable jointing and terminating  
Mould construction.

### Features

High impact resistance  
Long pot life, low exotherm  
High mechanical strengths  
Excellent chemical resistance  
Excellent electrical properties

### Packaging

30 kg kit. Part A- 15litres, Part B- 10 litres.

### Technical Data

#### Product as supplied

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

#### Mix Ratio

3 parts A to 2 parts B by Volume

#### Cured Properties

Density approx.: 1.1 kg per litre  
Maximum Operating Temperature: 90°C  
Martens Heat Distortion Temperature: 60°C  
Compressive Strength (Ultimate): 74 MPa  
Tensile Strength: 40 MPa  
Dielectric Constant: 25°C = 3.47  
Volume Resistivity, 50°C:  $15.8 \times 10^{10}$  ohm.cm

### Application Notes - General

#### Preparation

Ensure surfaces are prepared for adhesion or release as desired. Megapoxy E 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 in slow stream avoiding air entrapment. Do not apply at temperatures below 10°C.

#### Working Time (Pot Life)

1 hour at 25°C  
30 minutes at 35°C

#### Cure Time

24 hours at 25°C

#### Cleaning

Spillage and excess should be cleaned up as soon as possible. Uncured Megapoxy E 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 55 has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15°C to 30°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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