

Megapoxy E/155

CASTING EPOXY – HIGH TEMPERATURE RESISTANCE

Description

MEGAPOXY E/155 is a specially formulated epoxy based encapsulating and casting system. It offers high impact resistance with excellent electrical properties and high temperature stability.

Typical Uses

- ⊕ Encapsulation of electrical components including power transformers
- ⊕ Electrical power cable jointing and terminating
- ⊕ Mould construction
- ⊕ Casting electrical switch gear components

Features

- ⊕ High impact resistance
- ⊕ Excellent thermal properties
- ⊕ High mechanical strengths
- ⊕ Excellent chemical and wear resistance
- ⊕ Excellent electrical properties

Packaging

27.5 kilogram kit. Part A – 25kg, Part B – 2.5kg

Technical Data

Product as supplied

- ⊕ Part A epoxy resin compound – thick grey liquid
- ⊕ Part B formulated hardener - amber liquid

Mix Ratio

6 parts A to 1 part B by Volume
10 parts A to 1 part B by Weight

Cured Properties

- ⊕ Density approx.: 1.6 kg per litre
- ⊕ Maximum Operating Temperature: 140°C
- ⊕ Compressive Strength (Ultimate): 100 MPa
- ⊕ Martens Heat Distortion Temp: 127°C
- ⊕ Tensile Strength: 30 MPa
- ⊕ Dielectric Strength 25°C, 50 kHz: 19 KV/mm

Application Notes - General

Preparation

Ensure surfaces are prepared for adhesion or release as desired. Megapoxy E/155 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, ensuring all material around bottom and sides of container is incorporated. Do not aerate mix. Allow mix to stand for 2-3 minutes to allow any air to escape and then pour into mould in a slow stream, avoiding air entrapment. Do not apply at temperatures below 10°C.

Working Time (Pot Life)

30 minutes at 25°C
15 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/155 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 E/155 has a shelf life exceeding one year 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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