

# Megapoxy 57

## HIGH IMPACT GROUT & CASTING EPOXY

### Description

MEGAPOXY 57 is a high strength pre-filled, solvent free epoxy grout and electrical casting/encapsulation system. This epoxy has a 30 minute work time with low exothermal. Cured MEGAPOXY 57 has excellent static and dynamic mechanical properties as well as superior electrical and dielectric properties.

### Uses

Grouting where maximum flow, long work time, low exotherm and high strengths are required:

Crusher Liner Backing

Grouting in bolts, inserts and starter bars

Grouting bridge-bearing pads

Bedding machinery and rails

Casting & Encapsulation

Encapsulation of transformers

Casting electrical switchgear components

### Features

Excellent flow

Easy to mix pre-measured kits

High mechanical strengths

Excellent chemical resistance

Long pot life

Low exotherm

### Packaging

Kit size (9.4 kg) premeasured in correct mixing ratio. Part A component in 10 litre re-sealable plastic pail. Part B in 1.5 litre plastic bottle. Enables mixing in part A container.

### Technical Data

#### Product as supplied

Part A Epoxy resin with fillers - thick buff colored liquid

Part B Formulated hardener - thin clear or blue/green liquid

#### Cured Properties

Density - approx. 1.55 kg per litre

Martens Heat Distortion Temperature - 65 °C

Minimum Dielectric Strength 50 Hz, 25<sup>0</sup>C - 19 KV/mm

Initial Mixed Viscosity - 6.8 Pa.s at 25 °C

Compressive Strength (Ultimate) - 105 MPa

Tensile Strength – 40-45 MPa

Brinell Hardness - 36

Elastic Modulus - 11.0 GPa

Impact Resistance (Izod) - 2.5 kg/cm

### Application Notes

#### 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. 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. Wire brushing is not satisfactory giving minimal adhesion only.

#### Surface Preparation – Concrete

Concrete should be free of grease, oil and other contaminant. If necessary clean with industrial grade degreasing agent. Once clean steps must be taken to remove laitance, this is best done by grit blasting, mechanical abrasion or acid etching are alternative methods.

#### Mixing and Placement

Pour contents of Part B into Part A container and mix thoroughly for 3-5 minutes with a power mixer, ensure all material around bottom and sides of container is incorporated. Do not aerate mix. Pour mixed material slowly into the prepared void from one side only so as to avoid air entrapment. Do not apply at temperatures below 5 °C. Keep product cool prior to use in high ambient temperatures.

**Working Time (Pot Life)**

30 minutes at 25<sup>0</sup>C

**Cure Time**

24 hours at 25<sup>0</sup>C

**Cleaning**

Spillages and excess should be cleaned up as soon as possible. Uncured Megapoxy 57 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 57 has a shelf life exceeding one year sealed in the original containers and stowed in a dry environment at 15 to 25<sup>0</sup>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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