

Megapoxy 57

HIGH IMPACT GROUT & CASTING EPOXY

Description

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

Typical 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
- ⊕ Casing 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 6 Litres (9.4 kilograms) premeasured in correct mixing ratio. Part A component in 10 Litre resealable 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 coloured liquid
- ⊕ Part B formulated hardener – thin clear or blue liquid

Mix Ratio

3 parts A to 1 parts B by volume

5 parts A to 1 part B by weight

Cured Properties

- ⊕ Density approx.: 1.55 kg per litre
- ⊕ Martens Heat Distortion Temperature: 65°C
- ⊕ Compressive Strength (Ultimate): 105 MPa
- ⊕ Tensile Strength: 50 MPa
- ⊕ Brinell Hardness: 36
- ⊕ Elastic Modulus: 11.0 GPa
- ⊕ Impact Resistance (Izod): 2.5kg/cm
- ⊕ Initial Mixed Viscosity: 6.8 Pa.s at 25°C
- ⊕ Minimum Dielectric Strength 50 Hz, 25°C – 19 KV/mm

Application Notes - General

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 a sufficient surface treatment and will give 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 achieved by grit blasting, however, mechanical abrasion and acid etching are alternatives.

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 5°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 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 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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