

Product reference: 3/08

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Product title: Epoxy Laminating Resin

Valid from: 30th January 1999

Last reviewed: May 2019

Type

A low viscosity two-pack epoxy resin for use with reinforcing materials for laminating and construction.

Suggested use

As a laminating resin, used in conjunction with multi directional roving or other reinforcing materials.

Corrocoat Epoxy Laminating Resin may be over-coated with any of the Plasmet or Corrocoat Epoxy products; it has excellent structural properties.

Limitations

Should not be applied at temperatures below 5°C, where dew point is within 5° of air temperature or where humidity conditions exceed 87%.

Health & safety

Read and observe the Health & Safety data sheet prior to use.

Surface preparation

Corrocoat Epoxy Laminating Resin (ELR) may be applied directly on to correctly prepared steel substrates, grit blasted to ISO 8501-1 SA 2½ or equivalent standard. Full instructions are in the Corrocoat Data Sheets SP1 and SP2. ELR may also be applied over other Corrocoat epoxy products.

For best results on concrete it is recommended the substrate is primed using Plasmet ECP before application of reinforcement.

Mix ratio

100 Parts base: 57 parts activator.

Adhesion promoter: maximum 2% of total mix.

Mixing instructions

Carefully proportion base and hardener required and thoroughly mix using a powered mixer.

Application equipment

Brush, roller, dipping or spray in certain conditions.

Application

Whether or not the surface is already primed or coated, wet the substrate using the laminating (ELR) resin. Soak the reinforcement/roving in the ELR to ensure that it is thoroughly wetted out. Apply the soaked roving on to the surface whilst the roving and primer are still wet. Ensure there are no ridges or air bubbles present (these may be removed using a hard grooved or spiked roller whilst the resin is still wet). Apply ELR directly on to any 'dry' or lightly wetted areas in the reinforcement and ensure full wet out with air release.

Mixing

If required, add the adhesion promoter to the base and mix thoroughly. Add all the activator to the base and mix thoroughly. Transfer into a clean container and remix.

Mix only as much product as you can use during the limited pot life.

Pot life

Approximately 60 minutes at 20°C.

Thinners

DO NOT THIN. The addition of thinners will adversely affect this product.

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Packaging

5 and 10 litre composite kits.

Storage life

2 years minimum in unopened tins, stored at 5°C - 40°C.

Colour availability

Translucent brown.

Volume solids

99.8%

Cure time

Tack-free 8 hours.

Cure time approximately 3 to 4 days at 20°C; will vary significantly with temperature.

Overcoating time

Minimum 6 hours at 20°C: Maximum 3 days.

Cleaning solvent

Acetone, Methyl Ethyl Ketone, Xylene and Epoxy Equipment Cleaner.

Reviewed 02/2014 (No changes)

Reviewed 05/2016 (No changes)

Revised 05/2018

Revised 05/2019

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Unless otherwise stated, physical data is based on a test temperature of 20°C, test results may vary with temperature. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.