T: +44 (0) 113 2760 760 E: info@corrocoat.com

CORROGLASS 200 Laminating Resin

Product reference: 1/05

Product title: 200 Laminating Resin

Valid from: 14th August 1997

Last reviewed: 31 May 2019

Type

A two-pack cold cured Polyester Laminating Resin.

Suggested use

For use in wetting out with glass reinforcing tissues and fabrics.

Limitations

Not suitable for highly alkaline or polar solvents.

Health & safety

Before handling this product the material Health & Safety Data Sheet for 200 Series should be consulted and all precautions observed. Only to be applied by competent, adequately trained personnel.

Surface preparation

Metal Surfaces: Grit blast to ISO 8501-1 Sa 2½ or equivalent. For full details refer to Corrocoat Data Sheet SP1.

Application equipment

As necessary for wetting out the reinforcing material. Can be used with brush, roller or spray.

Mix ratio

100:2 Base:Hardener.

Pot life

Variable with temperature.

At 20°C approximately 20-30 minutes.

Thinners

The performance of 200 Laminating Resin may be adversely affected by the addition of solvent thinners (e.g. Xylene) and their use is prohibited. Should thinning be necessary use only styrene monomer to an absolute maximum of 5% by volume concentration.

Packaging

5, 10 and 20 litre pails.

Storage life

12 Months stored at temperatures below 24°C and away from direct light and sources of heat.

Colour

Translucent brown.

Recommended DFT

Not applicable.

Volume solids

This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerisation conditions. Nominally greater than 99% of the contents are convertible to solid.

Practical spreading rate

Dependent on roving usage.

CORROGLASS 200 Laminating Resin

Product reference: 1/05

Product title: 200 Laminating Resin

Valid from: 14th August 1997

Last reviewed: 31 May 2019

Specific gravity

200 Laminating base 1.06 gms/cc

Catalyst type

Methyl Ethyl Ketone Peroxide, Corrocoat Catalyst P2. In cold conditions, i.e. less than 10°C Corrocoat Catalyst P4 may be used if necessary to increase cure rate.

Overcoating

May take place as soon as the previous coat has gelled and whilst still tacky. Maximum overcoating time 72 hours.

Please note: Maximum levels refer to ambient temperature of approximately 20°C. At higher temperatures the maximum overcoating time will reduce significantly.

Cure time

Full cure will be obtained in 4-6 days.

Cleaning solvent

Acetone, Methyl Ethyl Ketone and Methyl Iso Butyl Ketone prior to gelation.

Physical properties

Property	Unreinforced Castings	Glass Mat Reinforced Laminates
Tensile Strength	62 MPa	85 MPa
Tensile Modulus	3380 MPa	7510 MPa
Elongation	2.10%	-
Flexural Strength	113 MPa	139 MPa
Flexural Modulus	3380 MPa	6590 MPa
Dielectric Strength	20 kV mm^{-1}	-
Coefficient of Linear Expansion 20-100°C		31 x 10^{6} $°C^{-1}$
Thermal Conductivity		0.22 w/mk

Note

(1) Glassmat Reinforcement test work performed using 30% w/w of matting.

(2) All results tested at 20°C.

Results will vary depending upon temperature, degree of cure, percentage of glass and quality of workmanship.

Reviewed 02/2014 (No changes)
Reviewed 10/2001 (No changes)
Reviewed 02/2014 (No changes)
Revised 10/2017
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.