Cert no 1122 - ISO 9001

CristexCompositeMaterials

Product Information

Resin	Hardener	Mixing ratio by weight
EC 147	W 147	100:45

Description: Low viscosity epoxy resin suitable for the coating of wood or can be used as an anti-osmosis treatment. This resin is recommended to be applied with either a brush or roller and will cure at room temperature.

Uncured Properties

	Resin (EC147)	Hardener (W147)
Colour	Pale / Yellow	Pale / Yellow / Red
Viscosity @ 25˚C	450 – 650 mPas	400 - 600 mPas
Density @ 25˚C	1.13 – 1.17 g/ml	1.00 – 1.03 g/ml

Cured Properties

		EC 147 / W 147
Density @ 25˚C		1.08 – 1.12 g/ml
Hardness @ 25˚C		87 – 91 Shore D/15
Glass transition (Tg)		65 – 70 ˚C
Flexural strength		80 – 90 MN/m^2
Maximum strain		4 – 6 %
Strain at break		7 – 12 %
Flexural elastic modulus		2500 – 3000 MN/m^2
Tensile strength		55 – 70 MN/m^2
Elongation at break		6 – 8 %

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Processing Data:

	Pot Life @ 25˚C (40mm / 100ml)	Exothermic Peak @ 25 ˚C (40mm / 100ml)	Gelation time @ 25 ˚C (15ml / 6mm)
EC147 / W147	20 min – 25 min	155 ˚C – 170 ˚C	3h – 4h

How to use:

Mix 100 parts resin to 30 parts of hardener by weight, this is very important as with all epoxies incorrect mixing ratios will result in a very poor cure of the resin.

Mix thoroughly for at least a minute.

This epoxy system is highly reactive and once mixed will start to exotherm, start lamination of the part as soon as the resin has been properly mixed.

Demoulding Information

	EC147 / W147
Temperature	@ 25 °C (15ml / 6mm)
Demoulding Time	12h – 18h

Cure / Post Cure Information:

Cristex' epoxy laminating system will cure at room temperature, after demoulding it will take several days for the cure to complete. In order to achieve the best mechanical properties from the resin a post cure is recommended. For most applications a post cure at 50°C is enough however by slowing down the ramp rate or increasing the part cure temperature to 80°C or 90°C this will improve the mechanical performance of the finished part.

Storage

Epoxy resins and hardeners have a shelf life of two years in the original sealed containers stored in a cool, dry place. The hardeners are moisture sensitive, therefore it is good practice to close the vessel immediately after each use.

Handling precautions

Refer to the safety data sheet and comply with regulations relating to industrial health and waste disposal.

Disclaimer: The information given in this publication is based on the present state of our technical knowledge, buyers and users should make their own assessments of our products under their own application conditions.