

Preliminary Technical Data Sheet

ClearTop 35

Colourless UV Stabilized Epoxy Resin Casting System
80 – 85 Shore D Hardness

ClearTop 35 is a fast curing colourless epoxy resin designed especially for use in variety of applications such as Bar tops, Counter tops, Furniture and other decorative projects that require a strong, durable coating. ClearTop 35 is low in colour and high in UV resistance. ClearTop 35 has excellent water resistance, chemical resistance, mechanical properties with excellent adhesion to a variety of substrates.

Special Features

- Clear and UV Resistant
- Cast from 5mm to 35mm thickness
- Fast curing
- Low viscosity, easy to apply
- Low tendency to yellow on exposure to UV
- Excellent mechanical properties
- Excellent chemical and water resistance
- Excellent adhesion

Mix Ratio

CT 35 Resin : CT 35 Hardener
By Weight 100 : 45

Product Data

Property	Units	ClearTop 35 Resin	ClearTop 35 Hardener	Mix
Material	-	Epoxy Resin	Formulated Amine	-
Appearance	-	Colourless liquid	Colourless liquid	Colourless liquid
Viscosity (25°C)	mPa.s	800 – 1,200	60 – 80	350 – 650
Density (25°C)	g/cm ³	1.10 – 1.15	0.95 – 1.00	1.05 – 1.10
Pot life (200g, 25°C)	Hours	-	-	> 8 hours
Cure Time (200g, 25°C)	Hours	-	-	48

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Full Cure (25°C)	Days	-	-	7
Recommended Casting Thickness	mm	-	-	5 – 35

Cured Properties

Properties	Standard	Units	Result (Full Cure)
Hardness	BS 2782: Part 3: Method 365B	Shore D	80 – 85
Tensile Strength	BS 2782: Part 3: Method 320A	MPa	TBC
Elongation at break	BS 2782: Part 3: Method 320A	%	TBC
Flexural Strength	BS 2782: Part 3: Method 335A	MPa	TBC
Flexural Modulus	BS 2782: Part 3: Method 335A	MPa	TBC
Heat Distortion Temperature (HDT)	TMA	°C	TBC

Method of Use

Preparation

Prior to use, ensure that the resin is compatible with the substrates, reinforcements or fillers being used.

Mixing and Application

Thoroughly mix the resin and the hardener according to the indicated mixing ratio, avoiding air entrapment and make certain that the material at the bottom and sides of the container is well stirred into the centre. Vacuuming the mixed material will help produce a void free cured part. The two components should be mixed and applied within the pot life.

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Cure and Post Cure

The system is designed to be used and cured at room temperature. Smaller, thinner castings will take longer to cure than larger, thicker castings. Samples cast in cold conditions will also take longer to cure. If the product is softer than expected, allow more time to cure, or heat gently at 30 – 40°C.

It is not necessary, but if desired, a step wise post cure treatment can be used to maximise cured properties. Allow the product to cure at room temperature for at least 24 hours, then heat to 40°C for 1 hour, followed by 60°C for 1 hour, followed by 80°C for 3 hours. To prevent any distortion during the post cure cycle, the part should be placed on a conformer. When post-curing is complete, let the unit cool down slowly to room temperature, preferably in the oven. Sudden change in temperature can cause distortion or warping. Heating the cured part can cause a small degree of yellowing.

Storage

ClearTop 5 should be stored in original, unopened containers between 15 and 25°C.

If stored under the above conditions ClearTop 5 will have a shelf life of 12 months.

Further Information

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

Our technical advice, whether verbal, or in writing is given in good faith, but without warranty – this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended process and use.

Before using any of our products, users should familiarise themselves with the relevant Technical and SDS provided by MB Fibreglass.