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EPOXY RESIN LH 289

Instruction for use, technical specifications

Characteristics

Approval:	---
Applications:	Stone glaze, hand lay up resin
Operational temperature:	+ 50°C - 100°C
Processing:	At temperatures between 10 °C - 50 °C All usual processing methods
Special properties:	Transparent at temperature between 0 °C - 10 °C Low viscosity of resin with hardener before lamination Pot life from approx. 15 min. to approx. 5 hours

Laminating curing systems for curing at room temperatures

Different laminating resin and hardeners combination is available for curing at room temperatures from 10 - 30°C. These systems have been modified such that they will cure completely at room temperature.

Heat resistance of 40 – 60°C can be obtained with curing at room temperature (rule of thumb: curing temperature +30°C = maximum heat resistance).

Heat resistance can rise to approximately 90°C.

Resin can be colored with pigments.

Laminating resin LH 289

Standard bisphenol A-based low viscosity resin.

Viscosity: 500–900 mPa.s at 25°C.

Does not crystallize at normal storage temperatures.

Advantage of the resin and recommended hardener system is the transparency.

Application

Epoxy resin LH 289 is characterized by a low viscosity.

Resin cured by amines or polyamines offers high-quality application characteristics such as good chemical resistance and excellent thermal properties. It can be used as a topcoat for artificial stones.

Specification of epoxy resin LH 289

		Epoxy resin LH 289
State		Liquid
Density	g/cm³ at 25 °C	1,12 - 1,16
Viscosity	mPa.s at 25 °C	500 – 900
Epoxide mass equivalent	g.mol⁻¹	180 – 193
Epoxide value	mol/1000g	0,51 - 0,56
Colour	Gardner	max. 3
Flash-point	°C	>150

Hardeners

System of laminating resin LH 289 and hardener H 289 gives shiny and unruffled surface.

Hardener	Thermal resistance (°C)	Workability (min)	Resin : hardener ratio (g)
H 289	80	30	100 : 33
H 146	90	120	100 : 30
H 512	100	200	100 : 25
H 505	80	25	100 : 27
H 509	90	70	100 : 26
H 536	80	50 - 70	100 : 35
H 538	80	55 - 75	100 : 35
H 285 MGS	-	50	100 : 40
H 286 MGS	-	70	100 : 40
H 287 MGS	-	180	100 : 40

Storage

Resins can be stored for at least 12 month in the carefully sealed containers. The resin does not crystallize at temperatures from 0°C to + 15°C.

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