



Merginamid L 445

PRODUCT INFORMATION

Product Description

Merginamid L 445 is a reactive polyaminoamide that is prepared by the condensation of multifunctional araliphatic carbonic acids with polyamines. Merginamid L 445 is liquid and has a good compatibility with epoxy resins. Due to its ability to cross-link with epoxy groups Merginamid L 445 has proved itself in many cases as versatile hardeners.

Typical Parameters

Viscosity at 25 °C [mPa*s]	1 000 - 3 000	Density at 20 °C [g/cm ³]	0.96
Amine value [mg KOH/g]	370 - 400	H-active-equivalent [g/Eg]	Ca. 95
Colour [Gardner]	Max. 8	Use level [g/100 g]	50 ¹⁾
Solids content [%]	100	Gel Time 250 g at 23 °C	140 Min.
		Biobased carbon content ²⁾ [%]	75

¹⁾ Liquid epoxy resins, epoxy equivalent weight approx. 190 g/Eq

²⁾ Measure of the amount of biomass-derived carbon in a product compared to its total carbon content

Application and Properties

Merginamid L 445 is miscible with other Merginamid L types and compatible with the most polyamines, phenolic and alkyd resins. It is soluble in alcohols, glycolethers, ketones, aromatic hydrocarbons, halogenated hydrocarbons as well as in mixtures of these solvents.

Merginamid L 445 is especially applied in solvent-based systems like other higher viscous Merginamid L types (e. g. L 275, L 375, L 410). Therefore epoxy resins with an epoxy equivalent weight of about 500 are employed to result a combination of positive effects. (For this application also see our product information 'Solutions of Merginamid L', e. g. L 190/70.)

Merginamid L 445 can be used in reactive adhesives, casting resins, synthetic resin cements with thermal stress, repair compounds, electric isolating cements, solvent-borne coatings and paints for ships.

With Merginamid L 445 hardened epoxy resin systems have the following advantages:

- excellent adhesion to metals, concrete, glass, paper, plastics
- high flexibility and impact strength
- low cure heating and shrinkage
- remarkable dimensional stability
- very high thermal stress reversals
- good flexural, compressive and tensile strength
- high resistance to high speed impact, mechanical and thermal influences
- good electric properties e.g. electrical-insulation values and low dissipation factors
- excellent water and chemical resistance

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