



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. MERGINAMIDS L 445 is liquid and has a good compatibility with epoxy resins. Due to its ability to cross-link with epoxy groups MERGINAMIDS L 445 has proved itself in many cases as versatile hardeners.

Typical Parameters

Viscosity at 40°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/100g]	50 ¹⁾
Solids content [%]	100	Gel Time 250g at 23°C	140 Min.

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

Application and Properties

MERGINAMID L 445 is miscible with other MERGINAMIDS L 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 MERGINAMIDS L (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 MERGINAMIDS 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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