

Laromer[®] LR 8986 ECO

Product description Epoxide acrylate for the formulation of radiation curable coatings and printing inks for wood, wood based-products, paper and plastics

Key benefits

- Free of reactive diluents
- Low viscosity
- Good chemical resistance
- Good scratch resistance
- Renewable content

Chemical nature Epoxide acrylate resin, free of reactive diluents

Properties

Physical form Medium viscous liquid

Technical data (not supply specification)	Viscosity, dynamic	DIN EN 12092 (23 °C, D = 100 1/s)	3.0 - 6.0 Pa.s
	Acid value	DIN EN ISO 2114	≤ 5 mg KOH/g
	Color (Iodine color number)	DIN EN 1557	≤ 2.5
	Density at 20 °C		~ 1.11 g/cm ³
	Flash point		> 100 °C
	Renewable content	ASTM D6866-20 Methode B (AMS)	On average ~ 12 %

Application

The resin can be diluted for processing with low volatile monomers such as monofunctional, difunctional and trifunctional acrylates or with low viscous polyether acrylates such as Laromer® LR 8863, Laromer® PO 33 F, Laromer® PO 43 F or Laromer® PO 8967.

Co-polymerizable reactive diluents will influence the coating properties depending on their chemical nature and concentration.

Inert, volatile solvents such as ketones or esters can be used to reduce the viscosity of the formulation based on Laromer® LR 8986 ECO. In this case, the solvent must be flashed off sufficiently prior to UV / EB curing.

A suitable photoinitiator must be used to photocure Laromer® LR 8986 ECO. The photoinitiator types include, for example, α -hydroxy ketone, benzophenone, acyl phosphine oxide, and blends thereof, for typical coating applications. The amount of photoinitiator varies between 2 – 5 % by weight based on Laromer® LR 8986 ECO as delivered.

Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses of 50 g/cm² and more to ensure proper through curing

Solubility, compatibility

Laromer® LR 8986 ECO shows a low viscosity without the presence of stenomeric monomers. Laromer® LR 8986 ECO can be diluted with e.g. polyether acrylates to formulate monomer free topcoats, primers and sealers. Films based on Laromer® LR 8986 ECO show excellent chemical and mechanical properties.

Storage

Product ought to be kept within sealed unopened containers. Containers should be stored below 35 °C and away from sunlight.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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