Technical Data Sheet

Laromer® PO 9137

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Product description Reactivity booster for pigmented and non-pigmented radiation curable systems

Key benefits

- Outstanding reactivity
- Excellent film forming properties
- Boosting cure speed in UV LED and LE (Low Energy) curing
- Low migration polymer acrylate for sensitive food packaging applications

Chemical nature Polymeric amine modified polyether acrylate

Properties

Physical form Clear, medium viscous liquid

Technical data (no supply specification)	Viscosity (23.0 °C)	500 - 800 mPa·s	DIN EN ISO 2555
	Color (APHA)	≤ 200	DIN EN ISO 6271
	Density (20.0 °C)	1.109 g/cm^3	DIN EN ISO 2811-3
	Surface tension (20.0 °C)	38.8 mN/m	DIN EN 14370
	Refractive index n_D (20.0 °C)	1.478	DIN EN ISO 6320

Application

Laromer® PO 9137 is a polymeric, medium viscous amine modified polyether acrylate greatly enhancing the reactivity of all types of radiation curable inks and clearcoats covering applications in printing and packaging, furniture and flooring as well as in automotive and industrial. Laromer® PO 9137 as excellent film former can be either used as co-binder or as sole binder resin depending on the corresponding application.

Formulation guideline

Laromer® PO 9137 is fully compatible with all mono- and multifunctional monomer acrylates and with typical oligomer acrylate classes such as epoxy acrylates, polyester acrylates and urethane acrylates.

Laromer® PO 9137 is boosting the reactivity of all radiation curable formulations in combination with type I photoinitiators like α-hydroxyketones and acylphosphine oxides as well as with type II photoinitiators such as benzophenones and thioxanthones, where the increase in cure speed is most pronounced for type II ones.

Usage

Laromer® PO 9137 provides extremely fast surface cure even at low film thicknesses < 10 µm minimizing oxygen inhibition.

The extremely high reactivity makes Laromer® PO 9137 the ideal choice for all radiation curable formulations in combination with UV LED radiation sources and with corresponding mercury lamps for LE (Low Energy) curing, where it clearly outperforms existing high reactivity binder resins.

In graphic arts, key applications for Laromer® PO 9137 are low to medium viscosity formulations like UV flexo inks and UV flexo varnishes. As a polymer Laromer® PO 9137 is particularly well suited for all sensitive food packaging applications, where low migration is required. Furthermore, Laromer® PO 9137 can also be employed as main binder resin for all types of UV flexo varnishes, where the absence of bisphenol A based substances is required.

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.
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