

Industrial Coatings

Technical Data Sheet



Laromer® PO 8982

Product Description	Laromer® PO 8982 is a polyether-modified acrylic resin. It can be used in energy curable resin formulations for coating applications, such as wood, wood products, paper and plastic.
Key Features & Benefits	- <i>Low viscosity</i> - <i>Monomer free</i> - <i>Water dilutable</i>
Chemical Composition	Modified polyether acrylate

Properties

Typical Properties	Appearance	low	viscous
liquid	Acid value (DIN EN ISO 2114, method B)	≤ 5 mg KOH/g	
	Viscosity at 23°C (ISO 3219 A)	~ 300 cps	
	Shear rate D	250 s ⁻¹	
	Iodine color number (DIN 6162)	≤ 10	
	Density at 20°C (ISO 2811, DIN 53217)	~ 1.10 g/cm ³	
	Flash point (DIN EN ISO 2719)	> 100°C	

Solubility, diluent tolerance	Soluble in all solvents common to the coatings industry except for aliphatic hydrocarbons. For the formulation of low viscous coatings, it can be thinned with monomers such as Laromer® HDDA, Laromer® TMPTA, and Laromer® TPGDA or with esters, ketones, and aromatic hydrocarbons.
Compatibility	Can be homogeneously mixed with most unsaturated acrylic resins such as other Laromer® grades. These typical values should not be interpreted as specifications.

Applications

General	Laromer® PO 8982 can be diluted with up to 25% water without the development of clouds. This covers a broad viscosity range and allows formulations for roller or spray applications. Combined with energy curable emulsions such as Laromer® Aqua PE 22 or Laromer® Aqua PE 55, high solids adhesive primers for parquet flooring can be formulated. Laromer® PO 8982 is recommended for applications such as: <ul style="list-style-type: none">• Interior/exterior general industrial metal coating applications• Interior/exterior plastic components coating applications• Interior/exterior wood coatings for floor, furniture, or millwork applications
Processing	Laromer® PO 8982 can be further diluted with low volatile monomers such as mono-functional, di-functional, or tri-functional acrylates. These are incorporated into the film during curing and thus influence its properties. Mono-functional acrylates increase film flexibility; di-functional acrylates have little influence on film hardness and flexibility; tri-functional acrylates increase film hardness.

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With an adequate flash-off zone available, inert solvents may also be used. These must, however, be completely removed from the film prior to energy curing.

A suitable photoinitiator must be used to photocure Laromer® PO 8982. 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% based on Laromer® PO 8982 as delivered.

Acryl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses above 50 g/m² to ensure through curing.

To increase the reactivity in thin films formulated with Laromer® PO 8982, a tertiary amine such as methyl diethanolamine or an amine synergist can be added. Good surface hardness can be achieved by a combination of MAPO, benzophenone, and a reactive tertiary amine in a ratio of 1:2:3. Care must be taken to ensure that the amine does not react with the substrate, particularly pale colored ones.

Please contact the local BASF technical specialist for further details.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Laromer® PO 8982.

Important

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