

Laromer[®] PR 9119

Product Description	Laromer PR 9119 is a polyester resin for formulating radiation-curable inks and overprint varnishes, putties, primers, and topcoats for wood and wood products. It is a Bisphenol A (BPA) free, medium viscosity, powerful UV resin with easy to matte capability in coatings, and is supplied in trimethylolpropane triacrylate.
Key Features & Benefits	<ul style="list-style-type: none">- BPA-free- All-around resin- Good reactivity- Good hardness- Good chemical resistance- Good adhesion over plastic substrates- Easy to matte
Chemical Composition	Polyester resin 38% in Trimethylolpropane triacrylate (TMPTA)

Properties

Typical Characteristics	Appearance	Clear, slightly yellowish liquid
	Viscosity at 23 °C (DIN EN ISO 3219)	cps 5000 – 9000
	Shear rate A	s ⁻¹ 100
	Acid value (ISO 3682, DIN EN 53402)	mg KOH/g ≤ 15
	Iodine color number (DIN 6162)	≤ 3
	Density at 20°C (68°F) (ISO 2811, DIN 53217)	g/cm ³ ~ 1.1

Solubility, diluent tolerance Laromer PR 9119 can be further diluted with monomers such as Laromer HDDA (hexanediol diacrylate), Laromer TMPTA (trimethylolpropane triacrylate), Laromer DPGDA (dipropylene glycol diacrylate) or Laromer TPGDA (tripropylene glycol diacrylate) as well as with esters, ketones, or aromatic hydrocarbons or solvents common to the coatings industry.

Compatibility It is homogeneously miscible with most unsaturated acrylic resins, e.g., other Laromer grades.

*These typical values should not be interpreted as specifications.

Applications

Laromer PR 9119 is a medium-reactive, unsaturated polyester resin preferably used in coatings for wood and wood products, and as a letdown vehicle in flexographic inks and overprint varnishes. Upon curing, these coatings are easy to sand, hard, and scratch-resistant. Translucent extenders, such as barium sulfate, talcum, kaolin, or colloidal silica, can be used in the manufacture of surfaces. Amino acrylates in inks and overprint varnishes enhance speed and improve performance properties.

Laromer PR 9119 can be further diluted with monomers, such as monofunctional, difunctional or trifunctional acrylates, which influence application properties.

Monofunctional acrylates increase film flexibility. Difunctional acrylates have little influence on film hardness and flexibility while tri-functional acrylates increase film hardness.

A photoinitiator is added to allow curing by ultraviolet radiation. Suitable photoinitiators —hydroxy ketones, amino ketones, mono-acryl and bis-acryl phosphine oxide for both surface and through-cure are necessary.

Laromer PR 9119 is easy to matte. Below are starting point formulations for matted clear coat and flexographic ink.

Starting Point Formulations Low Gloss Clear Topcoat

Material	Pounds
Laromer PR 9119	33.5
Laromer DPGDA	16.5
Hydroxy ketone	6.3
Efka® FL 3277	2.5
Acematt OK 607	0.9
Total	100.0

Flexographic Inks

Material	%
35% Pigment Dispersion in Laromer PE 9105	40
Laromer PR 9119	33.5
Laromer LR 8863	16.5
Hydroxy ketone	6.3
Amino ketone	2.5
Bis Acyl phosphine oxide	0.9
Mono Acyl phosphine oxide	0.3
Total	100

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 practices, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Laromer PR 9119.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure for other information.

Important

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