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Laromer® PR 9052

General	Laromer® PR 9052 is used for the formulation of radiation curable putties, primers and topcoats for wood, wood products and plastic applications.
Key features & benefits	abrasion resistance in flooring applications according to “S 42, S 33” high hardness high scratch resistance
Chemical nature	special acrylate dissolved in TMPTA

Properties

Appearance	medium- to high-viscosity liquid	
Typical characteristics *(should not be interpreted as specifications)*	viscosity at 23°C	4000~8000 mPa·s
	acid value	≤ 35 mg KOH/g solids
	iodine color number	≤ 5
	flash point	> 100°C
	density at 20°C	1.1 g/mL

Application

Laromer® PR 9052 is a medium reactive modified polyester resin, preferably used for wood applications. Due to the high network density, coatings based on Laromer® PR 9052 show a high hardness and scratch resistance after curing. In combination with aluminium oxide Laromer® PR 9052 shows very good abrasion resistance according to S 42. For putties, different fillers can be used, e.g. talcum, kaolin, barite or silica.

Formulation guideline

The desired application viscosity of coating formulations based on Laromer® PR 9052 can be achieved by the addition of low-volatile monomers such as monofunctional, bifunctional or trifunctional. Since such monomers are linked into the film during the curing process, they contribute to the final film properties.

Monofunctional acrylates increase flexibility. Bifunctional acrylates have little influence on hardness and flexibility, whereas trifunctional acrylates increase hardness.

In case of sufficient ventilation, also inert solvents can be used as diluents. Make sure these solvents are completely evaporated prior to curing.

A Photoinitiator must be added to allow curing by ultraviolet radiation. Suitable initiators are α-hydroxy ketone, benzophenone. Best results for white-pigmented coatings are obtained using acylphosphine oxides typically 2%~5% of Laromer® PR 9052 are added.

Laromer® PR 9052 dissolves in many solvents commonly used in the paint industry with the exception of aliphatic hydrocarbons. Laromer® PR 9052 can be diluted with monomers such as HDDA, TMPTA, TPGDA, as well as with esters, ketones or aromatics for further processing. Laromer® PR 9052 is compatible with most unsaturated acrylic resins, i.e. other Laromer® brands.

Storage

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

For further detailed application information please contact our Technical Support Department.

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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