Laromer® PE 55 F

Product description

Polyester acrylate, free of diluents for the formulation of radiation curable coatings and printing inks for wood, wood-based products, paper and plastics.

Key benefits

- Free of reactive diluents
- Balanced properties
- Good toughness

Chemical nature

Polyester acrylate

Properties

Physical form

Viscous liquid

Technical data

(not supply specification)

Viscosity at 23 °C, D = 25 s-1	DIN EN 12092	25 – 45 Pa·s
Acid number	DIN EN ISO 2114	≤ 5 mg KOH/g
Color (iodine number)	DIN EN 1557	≤ 10
Density		~ 1.17 g/cm3
Flash point		> 115 °C

Application

Due to the balanced properties of Laromer® PE 55 F the binder is used in a wide field of applications.

Laromer® PE 55 F leads to films with good toughness and overall properties thus it is used for the formulation of primers, sealers and topcoats for furniture and flooring applications, mainly.

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 in the formulation.

Inert, volatile solvents such as ketones or esters can be used to reduce the viscosity of the formulation based on Laromer® PE 55 F. In this case, the solvent must be flashed of sufficiently prior to UV / EB curing.

A suitable photoinitiator must be used to photocure Laromer® PE 55 F. 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® PE 55 F 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 through curing.

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

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