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# Laromer® LR 8986

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| **General** | Epoxide acrylate for the formulation of radiation curable coatings and printing inks for wood, wood-based products, paper and plastics. |
| **Key features & benefits** | free of reactive thinners<br>low viscosity<br>good chemical resistance<br>good scratch resistance |
| **Chemical nature** | epoxide acylate resin, free of reactive diluents |

## Properties

**Appearance** medium viscous liquid

**Typical characteristics**
*(should not be interpreted as specifications)*

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| viscosity at 23°C | 3.0~6.0 Pa·s |
| colour (iodine number) | < 5 |
| acid number | < 5 mg KOH/g solids |
| density | Ca. 1.2 g/mL |
| flash point | > 100 °C |

## Application

Laromer® LR 8986 shows a low viscosity without containing stenomeric monomers. Laromer® LR 8986 can be diluted with e.g. polyether acrylates in order to formulate monomer free topcoats, primers and sealers. Films based on Laromer® LR 8986 show excellent chemical and mechanical properties.

## Formulation Guidelines

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® LR 8967. Since the monomers are incorporated into the film, they affect the properties of the coating.

Inert, volatile solvents such as ketones or esters can be used as well in order to dilute coatings based on Laromer® LR 8986. In this case solvents have to be flashed off sufficiently prior to UV / EB curing.

A suitable photoinitiator must be used in order to cure Laromer LR 8986 with UV energy such as Irgacure® 500, Irgacure® 184, Irgacure® BP, Irgacure® 2100, Irgacure® TPO, Irgacure® TPO-L or Irgacure® 819. The amount of photoinitiators varies between 2%~5% based on solid binders.

## Storage

Product ought to be kept within sealed unopened containers. Containers should be stored below 30 °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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