

# Laromer<sup>®</sup> UA 9029

## General

Aliphatic urethane acrylate for radiation-curable coatings.

## Key features & benefits

weather resistant  
chemical resistant  
scratch resistant

## Chemical nature

aliphatic urethane acrylate, 70% solution in butyl acetate

## Properties

### Appearance

clear, low-viscous liquid

### Typical characteristics

*(should not be interpreted as specifications)*

viscosity at 23°C	0.3~1.0 Pa·s
iodine color number	≤ 3
non-volatile components	68%~72%
density at 20°C	1.08 g/cm <sup>3</sup>
flash point	> 28 °C

## Application

### solubility, compatibility

To reduce viscosity Laromer<sup>®</sup> UA 9029 can be diluted with all organic solvents common in the coatings industry with the exception of aliphatic hydrocarbons. Furthermore, Laromer<sup>®</sup> UA 9029 is compatible with acrylic and methacrylic monomers (e.g. HDDA, TPGDA, HEMA, HPMA, ...) serving as reactive thinners or other types of UV-resins like polyether-, polyester-, epoxy- or urethane acrylates.

### fields of application

Laromer<sup>®</sup> UA 9029 shows excellent weather resistance combined with good chemical and scratch resistance. Specially for outdoor applications on flexible substrates an additional elastification could be advantageous. For that purpose, Laromer<sup>®</sup> UA 9029 is a good combination resin.

The content of butyl acetate makes Laromer<sup>®</sup> UA 9029 a preferred resin for solvent-based spray coatings. To reach the high performance the solvent (butyl acetate) needs to be evaporates first before crosslinking via UV- or EB- radiation.

For any outdoor use, where excellent weather resistance is required, the use of light stabilizers (e.g. Tinuvin<sup>®</sup> 400, Tinuvin<sup>®</sup> 292) is recommended. For such coatings the right choice of photoinitiators is important. To allow good through-curing a phosphine oxide (e.g. Irgacure<sup>®</sup> 819, TPO, 2100) should be part of the initiator cocktail.

## 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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