

Laromer[®] UA 9089

chemical nature Aliphatic urethane acrylate

- key benefits**
- Diluent free
 - Excellent weather resistant
 - Highly flexible
 - Tough

Properties

physical form medium-viscous liquid

shelf life According to our experience, the product can be stored for 12 months from the date of delivery if kept in tightly sealed containers and protected from light and heat at temperatures below 30 °C.

**typical properties
(no supply specification)**

Viscosity at 23 °C (shear rate D 100 s ⁻¹)	18 – 24 Pa*s
Iodine color number	≤ 2
Density at 20 °C	~1,13 g/cm ³
Tensile strength	~25 N/mm ²
Elongation	~60 %

Application

solubility, compatibility

To formulate low-viscous coatings (e.g. spray viscosity) Laromer[®] UA 9089 can be diluted with all organic solvents common in the coatings industry with the exception of aliphatic hydrocarbons. Furthermore Laromer[®] UA 9089 is compatible with acrylic and methacrylic monomers (e.g. hexanediol diacrylate, tripropylenglycol diacrylate, hydroxyethyl methacrylate, hydroxypropyl methacrylate, ...) serving as reactive thinners or other types of UV-resins like polyether-, polyester-, epoxy- or urethane acrylates. Laromer[®] UA 9089 delivers excellent weather resistance combined with high flexibility and good toughness. Specially on flexible substrates like plastic (e.g. soft PVC) it can be used as alone binder. If increased scratch- and chemical resistance is required the combination with higher functional urethane acrylates like Laromer[®] LR 8987 or UA 9048 is beneficial.

fields of application

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

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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