

Laromer® UA 8987

Product description Aliphatic urethane acrylate for radiation-curable coatings.

- Key benefits**
- Weather resistant
 - Chemical resistant
 - Scratch resistant

Chemical nature Aliphatic urethane acrylate, 70% solution in hexandiol diacrylate (HDDA)

Properties

Physical form Clear, medium-viscous liquid

Technical data	Viscosity, dynamic	DIN EN 12092 (23°C, D = 100 1/s)	4.0 – 6.0 Pa.s
(not supply specification)	Iodine colour value	DIN EN 1557	≤ 3
	Density	(20 °C)	~ 1.1 g/cm ³

Application

Solubility, Compatibility To achieve low-viscosity formulations, such as those suitable for spray applications, Laromer® UA 8987 may be diluted using any of the organic solvents commonly utilized in the coatings industry, except for aliphatic hydrocarbons.

Additionally, Laromer® UA 8987 is compatible with a wide range of acrylic and methacrylic monomers, such as hexanediol diacrylate, tripropylene glycol diacrylate, hydroxyethyl methacrylate, and hydroxypropyl methacrylate. These monomers can serve as reactive thinners, or in combination with other types of UV-resins, such as polyether-, polyester-, epoxy-, or urethane acrylates.

Fields of application Laromer® UA 8987 exhibits excellent weather resistance, as well as good chemical and scratch resistance. It is particularly effective on various plastics, such as polycarbonate, due to the use of HDDA as a diluent, which enhances adhesion. For outdoor applications on flexible substrates, it may be beneficial to incorporate Laromer® UA 9089, a complementary resin that does not compromise the exceptional weather resistance of the coating.

When exceptional weather resistance is required for outdoor use, the use of light stabilizers, such as Tinuvin® 400 or Tinuvin® 249, is recommended. To ensure proper photocuring of Laromer® UA 8987, it is necessary to employ a suitable photo initiator. Some examples of photo initiator types suitable for typical coating applications include α -hydroxy ketone, benzophenone, acyl phosphine oxide, or blends thereof. The recommended amount of photo initiator is typically between 2% and 5% based on the delivered amount of Laromer® UA 8987.

For film thicknesses of 50 g/m², it is advisable to use acyl phosphine oxide types of photo initiators (MAPO, MAPO-Liquid, and BAPO) to ensure thorough 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

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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