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We create chemistry

Laromer® UA 8987 N

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 HDDA

Properties

Appearance	clear, medium-viscous liquid	
Typical characteristics *(should not be interpreted as specifications)*	viscosity at 23°C	4.0~6.0 Pa·s
	color (iodine number)	≤ 3
	density at 20°C	1.1 g/mL

Application

solubility, compatibility

To formulate low-viscous coatings (e.g. spray viscosity) Laromer® UA 8987 N can be diluted with all organic solvents common in the coatings industry with the exception of aliphatic hydrocarbons. Furthermore Laromer® UA 8987 N 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® UA 8987 N shows excellent weather resistance combined with good chemical and scratch resistance. Specially on different plastic (e.g. polycarbonate) the content of HDDA as diluent leads to increased adhesion. For outdoor applications on flexible substrates an additional elastification could be advantageous. For that purpose, Laromer® UA 8987 N is a good combination resin with no impact on the outstanding weather resistance.For any outdoor use, where excellent weather resistance is required, the use of light stabilizers (e.g. Tinuvin® 400, Tinuvin® 292) is recommended.

A suitable photoinitiator must be used to photocure Laromer® UA 8987 N. 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® UA 8987 N as delivered. Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses of 50 g/cm² 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.

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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