Laromer® UA 19 T

Product description

Laromer® UA 19 T is a urethane acrylate oligomer useful in ultraviolet (UV) and electron beam (EB) curing compositions. It is a useful component in wood coating formulations and roller coat varnishes as well as UV-inks.

Key benefits

- Highly elastic
- Low yellowing
- Good adhesion

Chemical nature

Aliphatic urethane acrylate, 65 % solution in tripropyleneglycol diacrylate (TPGDA)

Properties

Physical form

Clear, high-viscous liquid

Technical data

(not supply specification)

Viscosity, dynamic	DIN EN 12092 (23 °C, D = 25 1/s)	14.0 – 32.0 Pa.s
Iodine color value	DIN EN 1557	≤ 3
Density at 20 °C		~ 1.1 g/cm³

Application

Solubility, compatibility

To reduce viscosity Laromer® UA 19 T can be diluted with all organic solvents common in the coatings industry with the exception of aliphatic hydrocarbons.
Furthermore Laromer® UA 19 T 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.

Fields of application

Laromer® UA 19 T is a solvent-free urethane acrylate thinned with TPGDA. It is mainly used as combination resin in UV-coatings and UV- inks to increase elasticity. Even at low temperature cured films, which are based or containing Laromer® UA 19 T do stay elastic. Its aliphatic character allows the use in weather resistant and low yellowing coatings.

A suitable photoinitiator must be used to photocure Laromer® UA 19 T. 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 19 T as delivered.

Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for film thicknesses of 50 g/m² 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.

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

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