Laromer® UA 9135 Aqua

Product description

Water based urethane acrylate dispersion for the formulation of radiation curable coatings for wood, wood products, paper and plastics (e.g. PVC).

Key benefits

- Very good coffee stain resistance (clear and pigmented coatings)
- Good compatibility with 1K dispersions
- Low yellowing
- Good weather resistance
- Free of stenomeric monomers

Chemical nature

Water based urethane acrylate dispersion

Properties

Physical form

Low viscous liquid dispersion; opaque to slightly transparent

Technical data
(not supply specification)

Solid content	DIN EN ISO 3251	38.0 – 41.0 %
Viscosity, dynamic	DIN EN ISO 3219 (20°C, 13.9 1/min)	60 – 500 mPa.s
pH value	DIN ISO 976	7.0 – 8.5
Density	DIN 51757 (20 °C)	~ 1.067 g/cm³
Sensitivity to frost		≤ 5 °C

Application

Laromer® UA 9135 Aqua can be further diluted with DI water. It shows a very good compatibility with other UV curable dispersions (e.g. Laromer® UA 9005 Aqua or Laromer® UA 9147 Aqua) and 1C dispersions (e.g. Joncryl® 8331, Joncryl® 8330, Joncryl® OH 8312).

Formulation guideline

Formulations based on Laromer® UA 9135 Aqua show good compatibility to manifold 1C dispersions without haze or thickening effect.

Furthermore, low-gloss formulations based on Laromer® UA 9135 Aqua show very good viscosity stability during storage.

Prior to UV curing, all water needs to be removed from the film in order to prevent staining and mechanically instable coatings.

For UV curing, photo initiators are necessary to add. For clear coatings it is recommended to use 1 – 3 wt.% of α-HK calculated on solid dispersion.

For film thicknesses abouve 50 g/m² and for pigmented coatings we recommend the additional use of a BAPO. It improves the through curing by adding 0.2 – 1.0 % calculated on solid dispersion.

UV curable coating formulations containing photo initiators should be stored in UV-impermeable plastic containers.

Storage

Product ought to be kept within sealed unopened containers. Containers should be stored between 5 – 30 °C and away from sunlight. Laromer® UA 9135 Aqua should not come into contact with metals or alloys sensitive to corrosion.

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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