

Rheovis® PU 1331

general

rheology modifier

- highly efficient environmental friendly associative polyurethane thickener for aqueous formulations
- Newtonian rheology profile - highly efficient in ICI viscosity development
- heavy metal-, solvent- and VOC free
- excellent balance of performance properties to flat, semi-gloss and gloss coatings
- excellent flow and leveling
- excellent scrub resistance

chemical nature

solution of polyurethane in water

Properties

physical form

whitish liquid

storage

Rheovis® PU 1331 should be stored in a cool dry place.

typical properties (no supply specification)

density at 20 °C (68 °F)	~ 1.03 g/cm ³
solid content	~ 18 %
Brookfield viscosity at 23°C (73°F)	~ 4,500 mPa·s

Application

Rheovis® PU 1331 can be used as sole thickener or in combination with other rheology modifiers depending on the desired rheology profile. If used alone Rheovis® PU 1331 creates an almost Newtonian rheology profile which is for example desired in wood coatings where excellent penetration and levelling is important.

In decorative coatings Rheovis® PU 1331 is usually combined either with cellulose ethers or low shear associative thickeners to improve high-shear viscosity (ICI) for better brush drag, hiding power and minimizes spattering.

Rheovis® PU 1331 provides optimum performance in aqueous clear and high gloss top coatings, as well as anti-corrosive paints and thick layer systems.

recommended concentrations

0.5- 3 % on total paint

Combinations of Rheovis® PU 1331 with other low/mid shear rheology modifiers - or other types of thickeners e.g cellulose ethers - can be used to achieve the desired balance of high/low shear viscosities.

Rheovis® PU 1331 is usually added as the final ingredient to the formulation. Rheovis® PU 1331 allows for an easy incorporation with low shear power (easy handling).

Formulations containing Rheovis® PU 1331 should be allowed to rest for 16 hours after preparation in order to allow the optimum rheology to develop.

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Validity

This Technical Data Sheet is valid for all versions of the Rheovis PU 1331.

Safety

When handling these products, 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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