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Rheovis® PU 1331

Product description Rheology modifier

Key benefits

- Highly efficient, associative polyurethane thickener for aqueous formulations
- Newtonian rheology profile - highly efficient in ICI viscosity development
- Tin- and solvent-free, low-VOC
- Excellent balance of performance properties to flat, semi-gloss and gloss coatings
- Excellent flow and leveling
- Excellent scrub resistance

Chemical nature Polyurethane polymer in water

Properties

Physical form Whitish liquid

Technical data
(not supply specification)

Solid content	DIN ISO 1625 (105 °C, 2h)	~ 18 %
Viscosity, dynamic	Brookfield, 25 °C	~ 4,500 mPa.s
Density	at 25 °C	~ 1.03 g/cm^3

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 a very Newtonian rheology profile which is for example desired in wood coatings where excellent penetration and leveling 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 minimized 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.

Formulation guideline

0.4 – 3 % on total formulation

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

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

Storage

Keep container tightly closed and store in a cool, dry place.
Protect from temperatures below 0 °C and above 40 °C

If stored at low temperatures freezing of the product is possible. This process is reversible. Please heat product to room temperature and stir well before use.

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Validity

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

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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