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Rheovis® PU 1333

Product description Rheology modifier

Key benefits

- Outstanding Newtonian rheology profile for aqueous formulations
- Highly efficient high-shear polyurethane thickener
- Low-VOC, low-odor, Tin-free and solvent-free
- Improves flow and leveling especially in advanced technologies like high-solids paints
- No impact on wet scrub resistance, reduced spatter and improved hiding
- Prevents syneresis
- Low viscous product form enables easy handling and incorporation even by post addition
- Improved color acceptance and rub out

Chemical nature Polyurethane polymer in water

Properties

Physical form White, opaque liquid

Technical data
(not supply specification)

Solid content	DIN ISO 1625 (105 °C, 2h)	~ 20 %
Viscosity	ISO 2555, Brookfield, 25 °C	~ 3,000 mPa.s
Density	ISO 12185 at 25 °C	~ 1.02 g/cm^3

Application

If used as sole thickener Rheovis® PU 1333 is designed to provide an extremely Newtonian rheology profile with minimum effect on low- and mid-shear viscosity. It shows expressed high-shear efficiency for better brush drag, hiding power and minimized spattering.

Rheovis® PU 1333 is especially recommended when the required leveling cannot be achieved by conventional high-shear thickeners and by this is enhancing the formulation space.

It can be combined with other thickeners when more sag resistance is needed and can be broadly utilized with all kinds of binder types. Rheovis® PU 1333 can therefore be used in a wide range of architectural coating formulations ranging from flat to high gloss, furniture and flooring and industrial coatings to adjust the high-shear viscosity.

Rheovis® PU 1333 is especially suitable for high-solids paints, low pigmented or small-particle-size coatings (e.g. wood coatings) as well as e.g. anti-corrosion paints and thick layer systems.

Formulation guideline

1 – 4 % on total formulation

Combinations of Rheovis® PU 1333 with other low/mid-shear rheology modifiers or other types of thickeners like e.g. cellulose ethers, can be used to achieve the desired rheology profile.

The optimum use-level of Rheovis® PU 1333 should be determined by laboratory trials to achieve best performance.

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 1333.

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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