

# Rheovis<sup>®</sup> HS 1101

Product description	Rheology modifier
Key benefits	<ul style="list-style-type: none"><li>■ Very efficient low-shear acrylic (HASE) rheology modifier for aqueous coatings, leading to a pseudoplastic rheology curve</li><li>■ Outstanding, thixotropic rheology profile for an excellent balance of leveling and sag resistance</li><li>■ Biocide-free, APEO-free, tin-free</li><li>■ Outstanding storage stability</li></ul>
Chemical nature	Aqueous, acrylic polymer emulsion

## Properties

Physical form	White liquid (emulsion)		
Technical data (no supply specification)	Solid content	DIN EN ISO 3251, modified	~ 30%
	Product viscosity	DIN EN ISO 2555	< 50 mPa·s
	pH value	DIN ISO 976	~ 2.3

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## Application

Rheovis® HS 1101 is a very efficient acrylic low-shear rheology modifier for water-based coatings.

It provides an extremely pseudoplastic rheology profile with outstanding thixotropic flow behavior. This thixotropy leads to a slower viscosity recovery after removal of shear-stress (e.g., after a brush stroke) than observed with standard acrylic thickeners.

With a minimum amount required, this leads to an excellent balance between sag-resistance and leveling, which is ideal for e.g., airless spray applications or non-dripping paints and stains.

The polymer provides rheology-control through swelling of the high-molecular-weight polymer and in addition via associative interactions of hydrophobic components.

It is exceptional advantageous in industrial wood coatings, trim paints and joinery, architectural coatings, adhesives and sealants, besides other industries.

## Formulation guideline

0.1 - 1.4 % on total formulation

The amount required for optimum performance should be determined in trials covering a concentration range.

Rheovis® HS 1101 can be added at any stage of the production process. Afterwards the pH should be checked again and adjusted to > 7. Depending on the application, it can be advisable to use the product in combination with other mid- or high-shear Rheovis® thickeners to obtain the desired rheological profile.

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## Storage

Keep container tightly closed and store in a cool, dry place. Protect from temperatures below 5 °C and above 40 °C. If stored at low temperatures, freezing can irreversibly damage the product.

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### Validity

This Technical Data Sheet is valid for all versions of the Rheovis® HS 1101.

### 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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