

# Rheovis<sup>®</sup> HS 1153

**Product description** Rheology modifier

**Key benefits** ■ Outstanding low-shear thickener and rheology-control agent for aqueous coatings

**Chemical nature** Hydrophobic modified acrylic swellable copolymer emulsion (HASE) in water

## Properties

**Physical form** White liquid (dispersion)

<b>Technical data</b> (not supply specification)	Solid content	~ 40 %
	Brookfield viscosity at 25°C, 20 rpm	~ 5 mPa·s
	Density at 20°C	~ 1.073 g/cm <sup>3</sup>
	pH	~ 3.2

## Application

Rheovis<sup>®</sup> HS 1153 is the next generation of Rheovis<sup>®</sup> HS 1152, with identical rheological behavior. It offers a similarly outstanding rheology-control agent for water-based coatings to increase viscosity in the low-shear range and develops a pseudoplastic (shear-thinning) viscosity. The polymer provides rheology-control through extensive swelling of a high-molecular-weight polymer in combination with a hydrophobic component.

This leads to outstanding sag-resistance for interior and exterior coatings where cellulose ethers can (partially) be replaced by Rheovis<sup>®</sup> HS 1153. In combination with polyurethane based rheology modifiers (HEUR) it provides excellent balance of sag resistance and leveling which is ideal for airless spray applications.

Rheovis® HS 1153 is most effective between pH 8 to 10. It offers the following benefits:

- Low-shear thickening
- Improved sag resistance
- Outstanding efficiency
- For paints and plasters

## Recommended concentrations

1.0 - 3.5 % on total formulation

We recommend to determine the optimum level of Rheovis® HS 1153 by laboratory trials to achieve optimum performance.

Rheovis® HS 1153 can be added at any stage of the production process. Afterwards the pH should be checked again and adjusted to 8-10.

Rheovis® HS 1153 can also be mixed into polymer dispersions in the form of an alkaline solution. The solid content of the solution should not exceed 1% to allow easy handling. It is recommended to dilute the thickener with water and add alkaline whilst stirring. Check and adjust pH afterwards.

Depending on applications, it can be advisable to use Rheovis® HS 1153 in combination with other Rheovis® thickeners or cellulose derivatives in order to obtain the required effects.

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## Storage

Rheovis® HS 1153 should be stored in a cool dry place.

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### Validity

This Technical Data Sheet is valid for all versions of the Rheovis® HS 1153.

### 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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