

# Rheovis® HS 1152

(old: Rheovis® 152)



The Chemical Company

**General** Rheovis® HS 1152 is an 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)

**shelf life** Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 1 year.

**typical properties  
(no supply specification)**

solid content	~ 40 %
density at 20°C	~ 1.05 g/cm <sup>3</sup>
Brookfield viscosity at 25°C, 20 rpm	~ 5 mPa.s
pH	~ 3.2

## Application

Rheovis® HS 1152 is an outstanding rheology-control thickener for water based coatings to increase viscosity in the low-shear range and develops a pseudoplastic (shear-thinning) viscosity.

The polymer provides the rheology-control effect through extensive swelling of the high-molecular-weight polymer in combination with a hydrophobic component in alkali, in the presence of water.

This leads to outstanding sag-resistance for interior and exterior coatings where cellulosic ethers can (partially) be displaced by Rheovis® HS 1152. In combination with HEUR thickeners like our Rheovis® thickener an excellent balance of sag resistance and leveling will be achieved which is ideally suitable for airless spray applications.

Rheovis® HS 1152 is most effective between pH 8 to 10.

- Low-shear thickener
- Improve sag resistance
- Outstanding efficiency
- For paints and plasters

**recommended concentrations and incorporation**

typical dosage is between 1.0 to 3.5 percent Rheovis® HS 1152, calculated on total formulation. This provides a good balance of performance and application properties.

We recommend to determine the optimum level of Rheovis® HS 1152 by laboratory trials to achieve optimum performance.

Rheovis® HS 1152 can be added at any stage of the production process. In this case, the first step is to adjust the pH of the polymer dispersion so that it is in the alkaline range. A thin stream of Rheovis® HS 1152 can then be added by continuous stirring. Afterwards the pH should be checked again and adjusted to 8-10.

Rheovis® HS 1152 can also be mixed into polymer dispersions in the form of an alkaline solution. The solid content of the solution should not be higher than 1% to ease the 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 1152 in combination with other Rheovis® thickeners or cellulose derivatives in order to obtain the required effects.

**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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