

Rheovis® HS 1162

(old: Rheovis® 162)



The Chemical Company

general	Rheovis® HS 1162 is an outstanding extreme low-shear to thixotropic 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	~ 35%
density at 20°C	~ 1.04 g/cm ³
Brookfield viscosity at 25°C, 20 rpm	~ 5 mPa.s
pH	~ 3.5

Application

Rheovis® HS 1162 is an outstanding rheology-control thickener for water based coatings with an extreme low –shear to thixotropic flow behavior.

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 an excellent balance between sag-resistance and leveling which is ideally for airless spray applications or non-dripping paints and stains.

Rheovis® HS 1162 is most effective between pH 8 to 10.

- Thixotropic low-shear thickener
- Excellent balance between sag and leveling
- Outstanding efficiency
- For paints and stains

recommended concentrations and incorporation

typical dosage is between 0.3 to 1.5 percent Rheovis® HS 1162, calculated on total formulation. This provides a good balance of performance and application properties.

We recommend to determine the optimum level of Rheovis® HS 1162 by laboratory trials to achieve optimum performance.

Rheovis® HS 1162 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 1162 can then be added by continuous stirring. Afterwards the pH should be checked again and adjusted to 8-10.

Rheovis® HS 1162 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 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 1162 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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