

Rheovis[®] AS 1337

(old: Viscalex[®] VG2)



general

thickener and rheology-control agent

Rheovis[®] AS 1337 is an effective rheology-control thickener for water-based systems designed to improve the Newtonian rheological properties over a broad shear rate range without exhibiting any significant thixotropic effect. It thus allows the formulation of high-gloss paint systems with optimal flow properties for manual application techniques.

chemical nature

Rheovis[®] AS 1337 is a formulation based on an acrylic copolymer.

Properties

physical form

white liquid (emulsion)

storage

When stored under the usual appropriate storage conditions, the product can be stored for 2 years.

typical properties (no supply specification)

active content	~ 36%
viscosity at 25 °C (77 °F), Brookfield, 20 rpm	~ 5 mPa·s
density at 20 °C (68 °F)	~ 1.05 g/cm ³
pH	~ 3

Application

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- glossy emulsion paints for household paints
- glossy low-duty industrial paints

As a synthetically derived product, Rheovis[®] AS 1337 is less susceptible to microbiological attack than derivatives of cellulose. Consequently the paint formulator can substantially reduce the level of biocide leading to a broader area of application.

Rheovis[®] AS 1337 is most effective in the pH range of 7.5 to 10.5.

incorporation

Rheological control additives should preferably be added at the final stage of manufacturing of the coating – as opposed to addition at the pigment grinding stage – as unrecoverable damage to the behavior of the system can occur at high shear stress. The liquid form of Rheovis® AS 1337 makes this post addition comfortable. As a positive side effect, the post addition offers the flexibility in viscosity adjustment from batch to batch.

Provided efficient mixing equipment is available, Rheovis® AS 1337 can be poured directly into the mix. Should at any time the pH of the final system fall below 7.5, then additional alkali, ammonium or other base is necessary to reactivate the thickening mechanism. Use of volatile alkali, e.g., ammonia) as neutralizing agent improves the water resistance property of the dry film.

BASF also offers the rheology-control additive Viscalex® AS 1130 with pronounced thixotropic properties.

recommended concentrations

The amount of Rheovis® AS 1337 required for optimum performance should be determined in trials covering a concentration range.

0.2 – 1.5% based on total formulation

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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