

Rheovis[®] AS 1127

Product description	Rheology modifier
Key benefits	<div><div>■ Efficient low-shear, acrylic thickener (ASE) with pronounced pseudoplastic flow behavior</div><div>■ Pronounced KU-Viscosity</div><div>■ Prolonged open time</div><div>■ Reduced sagging</div><div>■ Reduced syneresis in storage</div><div>■ Broad Food Contact Compliances</div><div>■ Freeze-thaw stable</div></div>
Chemical nature	Aqueous, acrylic polymer emulsion

Properties

Physical form	White liquid (emulsion)		
Technical data (not supply specification)	Solid content	ISO 3251	~ 40 %
	Viscosity	ISO 2555	~ 50 mPa.s
	pH value	DIN ISO 976	~ 2.5

Application

Rheovis® AS 1127 is an efficient low-shear, acrylic thickener (ASE) with pronounced pseudoplastic flow behavior for many aqueous paint and coating systems.

Formulation guideline

0.5 - 3.5 % on total formulation.

We recommend determining the optimum dosage level for Rheovis® AS 1127 by laboratory trials to achieve the desired performance.

Rheovis® AS 1127 should preferably be added at the final stage of manufacturing of the formulation. The liquid form of Rheovis® AS 1127 makes post addition comfortable. As a positive side effect, post addition offers the flexibility for viscosity adjustment from batch to batch. Provided efficient mixing equipment is available, Rheovis® AS 1127 can be poured directly into the mix. Should at any time the pH of the system fall below 7.5, additional alkali, ammonia or other bases should be added to reactivate the thickening mechanism. The usage of ammonia as neutralizing agent improves the water resistance property of the dry film.

If it is to be applied in the form of a solution, it needs to be diluted down to a solids content of less than 4 %. The pH then has to be increased to >7.5 in order to allow the polymer to dissolve.

Alkali is required for a solution with pH 7.5, expressed as solid NaOH as a proportion of total solids, approx. 16 %.

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 of the product can irreversibly damage the product.

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Validity

This Technical Data Sheet is valid for all versions of the Rheovis® AS 1127.

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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