

Rheovis[®] AS 1130

Product description	Rheology modifier
Key benefits	<div><div>■ Highly effective low-shear acrylic thickener (ASE) for a wide range of water-based coatings</div><div>■ Excellent thickening efficiency</div><div>■ Reduced sagging, syneresis and easy incorporation</div><div>■ Outstanding viscosity stability after tinting</div><div>■ Advantageous thixotropic behavior in selected formulations, resulting in a non-stringy flow behavior</div></div>
Chemical nature	Aqueous, acrylic polymer emulsion

Properties

Physical form	White liquid (emulsion)		
Technical data (not supply specification)	Solid content	ISO 3251, modified	~ 30 %
	Viscosity	ISO 2555	< 40 mPa.s
	pH value	DIN ISO 976	~ 3.5

Application

Rheovis® AS 1130 is the ideal ASE rheology-control additive for water-based coatings. It allows coating formulation with an advantageous thixotropic behavior giving a non-stringy flow behavior which is easy to apply over a wide range of speeds and/or processes. Such formulations are ideally suitable e.g. for airless spray applications.

Rheovis® AS 1130 is an alkali swellable emulsion type thickener (ASE). Rheovis® AS 1130 gives optimum efficiency in a pH range of 7.5 to 10.5.

As a synthetically derived product, Rheovis® AS 1130 is less susceptible to microbiological attack than derivatives of cellulose. Consequently, paint formulators can substantially reduce the level of biocide leading to a broader area of application.

Formulation guideline

1.0 - 3.5 % on total formulation

The amount required for optimum performance should be determined in trials covering a certain concentration range.

Rheovis® AS 1130 should preferably be added at the final stage of manufacturing of the formulation. The low-viscous, liquid form of Rheovis® AS 1130 makes post addition comfortable. As a positive side effect, this offers flexibility for viscosity adjustment from batch to batch. Provided efficient mixing equipment is available, Rheovis® AS 1130 can be poured directly into the mix. Should at any time the pH of the final system drop 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.

Storage

If the product is in contact with atmospheric conditions, a skin will be formed. 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 1130.

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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