

Rheovis[®] HS 1153

Product description	Rheology modifier
Key benefits	<div><div>■ Efficient low-shear acrylic thickener (HASE) for a wide range of water-based coatings</div><div>■ Improved sag resistance and anti-settling</div><div>■ Easy handling due to low viscous product form</div><div>■ Well balanced, unique rheology curve</div><div>■ High solid content</div></div>
Chemical nature	Aqueous, acrylic polymer emulsion

Properties

Physical form	White liquid (emulsion)		
Technical data (not supply specification)	Solid content	ISO 3251, modified	~ 40 %
	Viscosity	ISO 2555	< 50 mPa.s
	pH value	DIN ISO 976	~ 3.0

Application

Rheovis® HS 1153 is an outstanding rheology-control agent for water-based coatings to increase viscosity in the low-shear range and develops a pseudoplastic (shear-thinning) viscosity. The polymer provides rheology-control through extensive swelling of a high-molecular-weight polymer in combination with a hydrophobic component.

This leads to outstanding sag-resistance for interior and exterior coatings where cellulose ethers can (partially) be replaced by Rheovis® HS 1153. In combination with polyurethane based rheology modifiers (HEUR) it provides an excellent balance of sag resistance and leveling which is ideal for e.g. airless spray applications.

Rheovis® HS 1153 is most effective between pH 8 to 10 and especially recommended for paints and plasters.

Formulation guideline

1.0 - 3.5 % on total formulation

We recommend determining the optimum level of Rheovis® HS 1153 by laboratory trials to achieve optimum performance.

Rheovis® HS 1153 can be added at any stage of the production process. Afterwards the pH should be checked again and adjusted to 8-10.

It 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 allow easy handling. It is recommended to dilute the thickener with water and add alkaline whilst stirring. Check and adjust pH afterwards.

Depending on the applications, it can be advisable to use Rheovis® HS 1153 in combination with other Rheovis® thickeners or cellulose derivatives in order to obtain the required effects.

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.

Contacts worldwide

Asia
BASF East Asia Regional Headquarters Ltd
45/F, Jardine House
No. 1 Connaught Place
Central Hong Kong
China
formulation-additives-asia@basf.com

North America
BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
USA
formulation-additives-nafta@basf.com

Europe
BASF SE
Formulation Additives
67056 Ludwigshafen
Germany
formulation-additives-europe@basf.com

South America
BASF S.A.
Rochaverá - Crystal Tower
Av. das Nações Unidas, 14.171
Morumbi - São Paulo-SP
Brazil
formulation-additives-south-america@basf.com

Validity

This Technical Data Sheet is valid for all versions of the Rheovis® HS 1153.

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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