

Rheovis[®] AS 1130

Product description Rheology modifier

Key benefits

- Highly effective rheology-control agent for a wide range of water-based coatings
- Advantageous thixotropic behavior giving non-stringy formulations
- Alkali swellable emulsion (ASE)

Chemical nature Acrylic copolymer emulsion in water

Properties

Physical form White liquid (emulsion)

Technical data

(no supply specification)

| | | |
|---------------|-----------------------------|--------------------------|
| Solid content | | ~ 30% |
| Viscosity | Brookfield at 25 °C (77 °F) | ~ 40 mPa·s |
| Density | at 20 °C (68 °F) | ~ 1.05 g/cm ³ |
| pH value | | ~ 3.5 |

Application

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

Rheovis[®] AS 1130 is an alkali swellable emulsion type thickener (ASE). Rheovis[®] AS 1130 is optimally effective in the 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 concentration range.

Rheovis® AS 1130 should preferably be added at the final stage of manufacturing of the formulation. The liquid form of Rheovis® AS 1130 makes post addition comfortable. As a positive side effect, the post addition 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

Rheovis® AS 1130 should be stored in a cool dry place. If the product is in contact with atmospheric conditions, a skin will be formed. Faster skin formation if the temperatures are higher.

Storage temperature: 5 - 30 °C. Avoid freezing. Avoid extreme heat.

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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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