

Rheovis[®] AS 1130

(old: Viscalex[®] HV30)



The Chemical Company

general

thickeners and rheology-control agents

Rheovis[®] AS 1130 is a derivative of a family of highly effective rheology-control thickeners for a wide range of water-based coatings.

chemical nature

Rheovis[®] AS 1130 is a acrylic copolymer emulsions in water.

The polymer provides the rheological control effect through extensive swelling of the high molecular weight polymer in alkali, in the presence of water.

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)

(identical values for both products)

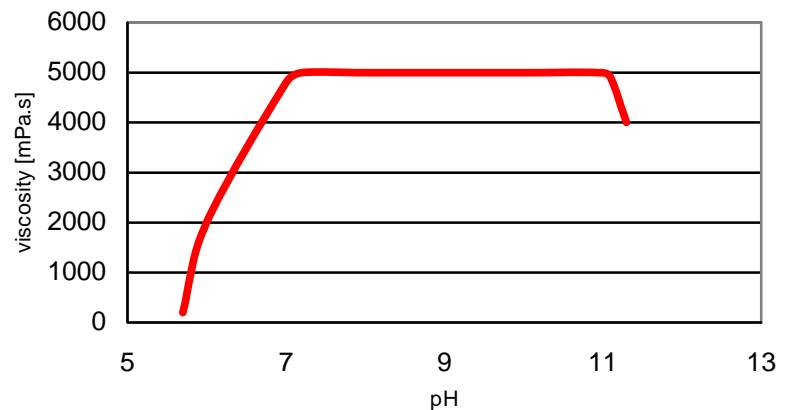
| | |
|---------------------------------------|--------------------------|
| solid content | ~ 30% |
| Brookfield viscosity at 25 °C (77 °F) | ~ 40 mPa·s |
| density at 20 °C (68 °F) | ~ 1.05 g/cm ³ |
| pH | ~ 3.5 |

Application

Rheovis[®] AS 1130 is a 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.

BASF also offers the rheology-control additives Rheovis[®] 132, Rheovis[®] 112 and Rheovis[®] 152 with more Newtonian properties.

Rheovis® AS 1130 is optimally effective in the pH range of 7.5 to 10.5.



As synthetically derived products, Rheovis® AS 1130 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.

incorporation

Rheological control additives should preferably be added at the final stage of manufacturing of the coating – as opposed to addition to the pigment grinding stage – as unrecoverable damage to the thixotropic behavior of the system can occur at high shear stress. The liquid form of Rheovis® AS 1130 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 1130 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.

recommended concentrations

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

1.0 – 3.5% wet on total formulation

Safety

When handling these products, 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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