

Rheovis[®] AS 1188

(old: Viscalex[®] AT88)



The Chemical Company

general

thickener and rheology-control agent

Rheovis[®] AS 1188 is a highly effective rheology-control additive for use in a wide range of water-based adhesives or latex. It is particularly suited for adhesives.

chemical nature

Rheovis[®] AS 1188 is a formulation based on an acrylic copolymer carried in an aliphatic hydrocarbon also containing a small amount of surfactant which emulsifies the carrier solvent.

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

Properties

physical form

white liquid (dispersion)

storage

When stored under the usual appropriate storage conditions, the product can be stored for 9 months.

Although Rheovis[®] AS 1188 is freeze-stable it is recommended to store the product at temperatures above 5 °C (41 °F) to enable ease of handling and pourability. Upon prolonged storage Rheovis[®] AS 1188 as supplied tends to exhibit phase separation. Consequently, "fit-for-use" for batches exceeding the recommended storage time (see product specification) is reasonably questionable. For optimal performance it is recommended to minimize the warehousing time and/or to effectively stir the product approx. every 2 months. Once formulated into a finished system and activated, the product is completely free of this effect, forming stable compounds.

typical properties (no supply specification)

active content	~ 60%
viscosity at 25 °C (77 °F), Brookfield, 20 rpm	~ 1.300 mPa·s
density at 20 °C (68 °F)	~ 1.18 g/cm ³

Application

Rheovis® AS 1188 can be used in a wide range of water-based adhesives and latex. The product is especially suited for adhesive systems. Typical application examples include:

- DIY adhesives
- conventional industrial adhesives, e.g., for the building industry
- adhesives in the packaging and woodworking industries
- pressure-sensitive adhesives
- high-speed machine adhesives

Rheovis® AS 1188 is equally effective over the wide pH range from 4 to 12.

incorporation

direct incorporation into latex or polymer emulsion

Provided efficient mixing equipment is available, Rheovis® AS 1188 can be poured directly into the latex/emulsion. If this is not possible due to machinery limitations, localized thickening can be prevented by pre-dilution of the additives with the carrier solvent mixture (aliphatic hydrocarbon) at a ration of 1:2.

pre-gel

Rheovis® AS 1188 can be diluted with water to form a stock solution if this method is preferred.

recommended concentrations

The amount of Rheovis® AS 1188 required for optimum performance should be determined in trials covering a concentration range.

adhesives and latex	0.5 – 1.0% on total formulation
pre-gel/stock solutions	3.0% Rheovis® AS 1188 in water

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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