Technical Data Sheet

Dispex® AA 4135

general	• derivative of a family of highly effective, low viscosity dispersing agents for water-based coating systems • especially suitable for the dispersion of inorganic pigments and fillers
chemical nature	solution of a sodium salt of an acrylic polymer in water

Properties

physical form	liquid
storage	although Dispex® AA 4135 is freeze-thaw stable it should be stored at temperatures above 5 °C (41°F) to allow easy handling. Dispex® AA 4135 must not be allowed to come into contact with metals or alloys that are liable to corrosion. The product should always be stored in tightly closed containers.

typical properties

solvent	water
viscosity (23°C, 100 1/s)	~ 200 mPa·s
solid content	~ 35%
pH value	~ 7

Application

Dispex® AA 4135 is an all-purpose polymeric dispersing agent for inorganic fillers and pigments. It can be used as supplied.
Dispex® AA 4135 is based on an organic polymer and it offers the following advantages:

- excellent dispersing efficiency for inorganic pigments and extenders
- highly efficient
- synergistic effects in combination with polyphosphates
- excellent storage stability

incorporation

Dispex® AA 4135 should be added under stirring before adding pigments or fillers to the grind. In general, the pH of the final preparation should be in the region of 8.5 to obtain optimum dispersing efficiency.
The optimum amount of dispersing agent required to form a stable dispersion strongly depends on the pigment's chemical nature, the particle surface and shape. The polymer base of the latex also plays a very important role.
In general, underdosing of the dispersing agent will lead to insufficient stability of the pigment dispersions. Likewise to other dispersing agents the formulator should apply 1.5 – 2.0 times the determined optimum level of dispersing agent to avoid storage problems.

recommended dosage

0.5% - 2% on total pigment weight

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Validity
This Technical Data Sheet is valid for all versions of the Dispex AA 4135;
Dispex AA 4135, Dispex AA 4135 NA

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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