

Dispex® N40V EB

Product description Dispersing agent

Key benefits

- Highly effective, low viscosity dispersing agent for water-based systems
- Suitable for dispersions of inorganic pigments and fillers
- Effective in water-borne coating systems

Chemical nature A solution of a sodium salt of an acrylic polymer in water

Properties

Physical form Straw colored liquid

Technical data

(no supply specification)

Active content	40 %
pH	~ 8.0
Kinematic viscosity	20.0 mm ² /sec
Density at 20 °C (68 °F)	~1.3 g/cm ³

Application

Dispex® N40V EB preparations are ideal dispersing agents for a wide range of water-borne coatings. Dispex® N40V EB can be used as supplied. Dispex® N40V EB is effective over a wide pH range 5 - 12 and up to temperatures in excess of 100 °C (212 °F). Compared with inorganic dispersing agents, e.g. polyphosphate products, the organic polymer based Dispex® N40V EB provides improved storage stability of both the pigment dispersion and the formulated paint. There is little or no adverse reaction to high temperatures or pH changes.

Incorporation

Dispex® N40V should be added under stirring before adding pigments or fillers. In general, the pH of the final preparation should be in the region of 7.5 - 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 part in the stability equation.

In general, significant overdosing may deteriorate the coatings properties (e.g. water resistance) and also generates an economic disadvantage. Likewise insufficient dispersing agent will lead to instability on storage. In common with other dispersing agents, because of the batch-to batch variations of the demands of a specific pigment or latex type, it is recommended that the formulator uses 1.5 – 2.0 times the determined optimum level of the dispersing agent.

Formulation guideline 0.5 – 2.0 % Dispex® N40V EB (based on total pigment weight)

Storage

Dispex® N40V EB is freeze stable. It is recommended to store the products at temperatures above 5 °C to enable easy handling of the product.

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Validity

This Technical Data Sheet is valid for all versions of the Dispex® N40V EB.

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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