

Dispex[®] Ultra PA 4550

General

Dispex[®] Ultra PA 4550 is a high-molecular-weight dispersing agent. It stabilizes the pigment dispersion of inorganic and organic pigments and improves the following properties:

- Gloss
- Color strength
- Flocculation stability
- Anti-flooding behavior
- pH-independent
- Broad compatibility in most commonly used water-based coatings
- Completely water-soluble
- Does not need to be neutralized

Chemical nature

Modified polyacrylate

Properties

Physical form

Slightly hazy yellowish liquid

Technical data (not supply specification)

Solid content	BASF method (1h at 120 °C)	48.0 – 52.0 %
Viscosity, dynamic	BASF method (20 °C)	15,000 – 30,000 mPa.s
Amine value	BASF method (20 °C)	19.0 – 25.0 mg KOH/g
Color value (Gardner)	BASF method (20 °C)	≤ 6
Density	BASF method (20 °C)	1.040 – 1.080 g/m ³
Solvent		Water
Turbidity	BASF method	15 NTU

Application

Dispex® Ultra PA 4550 can be used exclusively as a dispersing agent to formulate resin-free pigment concentrates for VOC-free applications.

Recommended concentrations

Calculation method for the required amount of active ingredient on pigment:

Inorganic pigments	10 % of oil absorption value
Organic pigments	25 – 50 % of BET value
Carbon blacks	20 % on DBP absorption value

Dispex® Ultra PA 4550 should be incorporated in the mill base before adding the pigments.

Storage

Dispex® Ultra PA 4550 may partially solidify when stored below 10 °C.
Heat to 35–40 °C to reliquefy.

Contacts worldwide

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Validity

This Technical Data Sheet is valid for all versions of the Dispex® Ultra PA 4550.

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.