

Dispex[®] Ultra FA 4431

General

- Dispersant for inorganic pigments and fillers in solvent-based, solvent-free and water-based systems
- Reduced grinding and dispersion time
- Increased pigment loading in the mill base or pigment concentrate allowing to achieve a VOC level below 250 g/l in highly filled solvent-based systems
- Improved gloss, leveling and flow

Chemical nature

Fatty-acid-modified polyester

Properties

Physical form

Clear yellowish liquid

Technical data

(not supply specification)

Viscosity, dynamic	BASF method (23 °C)	150 – 400 mPa.s
Density	(20 °C)	1.020 – 1.070 g/cm ³
Active ingredients		> 98 %
Acid value		95.0 – 105.0 mg KOH/g
Color value		0.0 – 8.0

Application

Dispex® Ultra FA 4431 can be used in all solvent-based and solvent-free industrial and decorative coating systems. It is especially suitable for the wetting, dispersing and stabilizing of inorganic pigments and fillers in solvent-free epoxy and polyurethane systems, e.g., flooring or pipeline coatings.

It can also be used to decrease the viscosity of water-based resin-free inorganic pigment concentrates based on high-molecular-weight dispersing agents.

In addition, Dispex® Ultra FA 4431 is suitable for dispersing and stabilizing of inorganic pigments and fillers in water-based decorative paints based on acrylic emulsions, achieving better rheology and improved gloss.

Recommended concentrations

The usual concentration is 1 – 3 % by weight as supplied based on filler or inorganic pigment.

When used in mill bases, Dispex® Ultra FA 4431 should be added before grinding.

If used for post addition in pigment concentrates, good dispersion should be ensured.

Dispex® Ultra FA 4431 should be neutralized to a pH of 7.5 – 8.0 to make it water-soluble.

Storage

Dispex® Ultra FA 4431 should preferably be stored at room temperature (20 °C). At temperatures below 18 °C it can become hazy and solidify. This does not affect the quality of the product and can be reversed by heating.

Contacts worldwide

Asia
BASF East Asia Regional Headquarters Limited
36/F, Two Taikoo Place,
Taikoo Place,
979 King's Road,
Quarry Bay, Hong Kong
formulation-additives-asia@basf.com

North America
BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
USA
formulation-additives-nafta@basf.com

Europe
BASF SE
Formulation Additives
67056 Ludwigshafen
Germany
formulation-additives-europe@basf.com

South America
BASF S.A
Rochaverá - Crystal Tower
Av. das Nações Unidas, 14.171
Morumbi - São Paulo-SP
Brazil
formulation-additives-south-america@basf.com

Validity

This Technical Data Sheet is valid for all versions of the Dispex® Ultra FA 4431.

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.

® = Registered trademark

™ = Trademark of the BASF Group, unless otherwise noted

www.basf.com/formulation-additives