

# Dispex® Ultra PA 4590

## General

High-molecular-weight dispersing agent

## Key benefits

Dispex® Ultra PA 4590 stabilizes the dispersion of inorganic and organic pigments and has the following features:

- Is cost-effective
- Improves viscosity reduction
- High organic pigment loading
- Strong anti-flooding behavior
- Excellent gloss

## Chemical nature

Modified polyacrylate

## Properties

### Physical form

Cloudy yellow liquid

### Technical data

(not supply specification)

Solid content	BASF method (1h at 120 °C)	39.0 – 42.0 %
Acid value	BASF method (20 °C)	4.0 – 8.0 mg KOH/g
Amine value	BASF method (20 °C)	33.0 – 39.0 mg KOH/g
Color value (Gardner)	BASF method (20 °C)	≤ 7
Density	BASF method (20 °C)	1.020 – 1.060 g/m <sup>3</sup>

Application

Dispex® Ultra PA 4590 is a wetting and dispersing agent designed as a cost-effective alternative to the existing polymeric dispersants, suitable for all kinds of pigments in water-based industrial coatings as well as for pigment concentrates.

Due to the presence of AMP-90™1 this product cannot be classified as VOC-free.

Recommended concentrations

Calculation method to give the required amount of active ingredients on pigment to be used in resin-free pigment concentrate applications:

Inorganic pigments	20 – 30 % of oil absorption value
Organic pigments	30 – 70 % of BET value
Carbon blacks	60 % of DBP absorption value

Dispex® Ultra PA 4590 should be incorporated in the mill base before adding the pigments.

Shelf life

Dispex® Ultra PA 4590 may solidify when stored below 10 °C. Heat to 35–40 °C to reliquefy.

When kept in original unopened containers, it can be stored for up to 4 years from the date of manufacture.

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Validity

This Technical Data Sheet is valid for all versions of the Dispex® Ultra PA 4590.

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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