

AFCONA-4598



Chemical Composition

Modified polyacrylate and vinyl copolymer.

Product general description

High molecular weight polymeric dispersant for water-based industrial coatings that prevents pigment flocculation and offers strong viscosity-reducing capability.

Product Properties

AFCONA-4598 is a wetting and dispersing additive for water-based coatings and pigment pastes. It prevents negative effects such as flocculation and floating, while providing good dispersion stability. It also enhances the storage stability of coatings and pigment pastes.

AFCONA-4598 features an effective steric hindrance effect, enabling excellent stabilization performance across all types of pigments, with particularly outstanding performance when handling transparent iron oxide pigments in waterborne systems. Additionally, it contains no co-solvents, making it suitable for low VOC water-based coating systems.

The advantages of pigment pastes dispersed with AFCONA-4598 are as follows:

- Lower viscosity of concentrate
- High color strength
- Higher color transparency
- Good storage stability

In finished coatings, AFCONA-4598 offers the following advantages:

- High color strength
- High gloss
- No flooding and floating
- Good storage stability
- Low impact on water resistance

AFCONA-4598 is completely water-soluble and does not require neutralization. AFCONA-4598 is recommended for the preparation of resin-free water-based pigment pastes and universal water-based colorants, as well as for various water-based decorative paints and industrial coatings.

Note: AFCONA-4598 may become slightly hazy when stored below 5°C. That will not influence the quality.

Product Specification

Non-volatile matter	39 - 43% (120°C, 0.5h)
Solvent	Water
Density	1.02 - 1.06 g/cm ³ (20°C)
Refractive index	1.390 - 1.410 (25°C)
Acid value	7 - 15 mg KOH/g
Gardner color	Max.15
Flash point	>100°C
Appearance	Transparent, brownish liquid (25°C)

Addition and dosage

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

TiO ₂	: 2-3%
Other inorganic pigments	: 2-5%
Organic pigments	: 20-40%
Carbon blacks	: 20-60%
Transparent Iron Oxides	: 5-15%

Incorporation

AFCONA-4598 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4598 shall be stored in cool, dry and freeze-proof place. Shelf-life is 3 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

30kg and 210kg non-returnable containers

For product safety information: please take reference of SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.