

AFCONA-4595



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-4595 is a novel comb-like high molecular weight dispersant that provides excellent stability for inorganic and organic pigments as well as carbon blacks. Its effective steric hindrance effect ensures outstanding stabilizing performance across all pigment types, with superior performance, especially with transparent iron oxide pigments in water-based systems. Additionally, it contains no co-solvent, making it suitable for low VOC water-based coating systems.

AFCONA-4595 has the following advantages:

- Lower viscosity of concentrate
- High color strength
- Higher color transparency
- Prevention of floating and flooding

AFCONA-4595 is pH independent and broadly compatible with most water-based decorative coating systems, while having minimal impact on the water resistance of the coating film. It is completely water-soluble and does not require neutralization before use.

AFCONA-4595 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. It can also be used in combination with AFCONA-6225 to reduce costs without compromising dispersion performance. Please refer to the application section for guide formulations.

Note: AFCONA-4595 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
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%
Transparent Iron Oxides	: 5-15%
Organic pigments	: 20-40%
Carbon blacks	: 20-60%

Incorporation

AFCONA-4595 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4595 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.