

AFCONA-4400



Chemical Composition

Modified polyacrylate polymer.

Product general description

High molecular weight polymeric dispersant for de-flocculation of all types of pigments.

Product Properties

AFCONA-4400 is a highly efficient high molecular weight dispersant. It provides excellent stability for inorganic and organic pigments, as well as carbon blacks. Its effective steric hindrance effect provides outstanding stabilizing performance for all types of pigments.

AFCONA-4400 offers the following advantages:

- Improved gloss and DOI
- Reduced flooding problems
- Higher colour strength

AFCONA-4400 is a higher molecular weight version of AFCONA-4401. It shows better pigment stability performance (de-flocculation), especially with organic pigments.

AFCONA-4400 shows wide compatibility, from low-polarity to high-polarity systems, including nitrocellulose and thermoplastic acrylic resins, second only to AFCONA-4401.

Care must be taken when used in combination with chlorinated polymers and/or epoxy systems, because it might have tendency to yellowing or gelling in those systems.

AFCONA-4400 can be used in all kinds of high quality solvent-based coatings, including automotive topcoats. It is recommended for:

- Oil-free polyester resin
- Thermoplastic acrylic resins
- Thermosetting /high hydroxyl value acrylic resins
- Nitrocellulose
- Cellulose acetate butyrate

Note:

1. The viscosity reduction capability of AFCONA-4400 is lower than that of other polyurethane-based dispersants from AFCONA.
2. AFCONA-4400 may become slightly hazy when stored at or below 5°C. That will not influence the quality.

Product Specification

Non-volatile matter	39 - 42% (150°C,0.5h)
Solvent	Butyl acetate/ Propylene glycol methyl ether acetate/Sec-butanol
Density	0.95 - 0.97 g/cm ³ (20°C)
Amine value	40 - 55 mg KOH/g
Gardner color	Max.4
Flash point	46°C

Addition and dosage

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

TiO ₂	: 2-3%
Other inorganic pigments	: 2-4%
Organic pigments	: 20-40%
Carbon blacks	: 20-60%

Incorporation

AFCONA-4400 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4400 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 5 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

25kg and 190kg non-returnable containers

For product safety information: please refer to the product SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.