

AFCONA-4403



Chemical Composition

Modified polyacrylate polymer.

Product general description

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

Product Properties

AFCONA-4403 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-4403 offers the following advantages:

- Improved gloss and DOI, reduced haze\iness
- Prevention of floating and flooding
- Higher colour strength

AFCONA-4403 is a modified product that enhances the pigment wetting ability of AFCONA-4401, while maintaining the same dispersing performance. It offers broad compatibility across a wide range of resin systems, from low to high-polarity types, including nitrocellulose and thermoplastic acrylic resin systems.

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

AFCONA-4403 imparts thixotropy to the grinding mill base, resulting in relatively high viscosity during the milling stage. However, the viscosity returns to normal once formulated into the finished coating.

AFCONA-4403 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

Product Specification

Non-volatile matter	54 - 56% (150°C, 0.5h)
Solvent	Butyl acetate/ Propylene glycol methyl ether acetate/Sec-butanol/ Xylene
Density	0.93 - 0.97 g/cm ³ (20°C)
Amine value	34 - 44 mg KOH/g
Gardner color	Max.5
Flash point	43°C
Appearance	Pale yellowish clear to slightly hazy liquid (25°C)

Addition and dosage

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

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

Incorporation

AFCONA-4403 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4403 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.