

AFCONA - 4400



Chemical Composition

Modified polyacrylate polymer.

Product general description

High molecular weight polymeric dispersant for deflocculation of all type of pigments.

Product Properties:

AFCONA-4400 is an effective polymeric dispersant for stabilizing inorganic and organic pigments. It has very good stability performance, through effective steric hindrance, on all type of pigments.

This results in:

- improved gloss and DOI
- reduced flooding problems
- high colour strength

AFCONA-4400 is a higher molecular weight version of AFCONA – 4401. With the higher molecular weight, it shows better pigment stability performance (deflocculation) especially with organic pigments.

AFCONA-4400 shows a wide compatibility, from low polar to high polar systems, including nitrocellulose and Thermoplastic Acrylic. However for those systems we have better products like AFCONA – 4200 and AFCONA – 4000.

Care must be taken when used in combination with chlorinated polymers and/or epoxies systems, because in these systems it has a tendency to yellowing or gelling.

AFCONA-4400 can be used in all kinds of high quality solvent-based industrial coatings including automotive topcoats. The best performance is given in the following resin systems:

- Oil free Polyesters
- Thermosetting Acrylics
- Thermoplastic acrylics

Note: Due to the linear and symmetry structure, the viscosity reduction property of AFCONA-4400 is much less than the AFCONA polyurethane type of dispersants.

Product Specification

Non-volatile matter	39 -42% (150°C,0.5h)
Solvent	BAC/ PMA/Sec-butanol
Density	0,95 – 0,97 g/cm ³ (20°C)
Amine value	40 – 55 mg KOH/g
Flash point	46°C
Gardner color	Max.4

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 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

25kg and 190 kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.