

AFCONA - 4000



Chemical Composition

Modified polyurethane polymer.

Product general description

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

Product Properties:

AFCONA-4000 is a result of an innovative concept of polyurethane dispersants. This innovative technology is based on an own new developed intermediate monomer and own new developed anchoring groups.

AFCONA – 4000 is higher molecular weight version of AFCONA – 4200.

AFCONA – 4000 has below special properties and recommended in below systems.

- 1) Beside the good compatibility property as AFCONA 4200, AFCONA – 4000 have higher molecular weight and the performance in ordinary systems like Polyurethane, epoxy, baking paint and etc is better than AFCONA – 4200.
- 2) AFCONA – 4000 can be used to substitute our previous version of Polyurethane dispersant, such as, AFCONA – 4046, AFCONA – 4047 and AFCONA – 4050. However a real substitute is our AFCONA – 4077.

AFCONA – 4000 is recommended:

- 1) Thermoplastic acrylic
- 2) CAB containing system
- 3) Polyurethane
- 4) Baking paint that based on alkyd, acrylic and saturated polyester.

Note: AFCONA – 4000 will become slightly hazy at temperature below 5°C. Even at -15°C the slight haze stay the same. This will not influence the dispersing quality.

Product Specification

Non-volatile matter	64 - 66% (150°C,0.5h)
Solvent	Butylacetate/PMA/ Sec-butanol
Density	0.98 – 1.00 g/cm ³ (20°C)
Amine Value	10 – 15 mgKOH/g
Flash point	24°C
Gardner color	Max.4
Appearance	Transparent to slight yellowish 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-4000 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4000 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 200 kg non-returnable containers

AFCONA ADDITIVES
Web Site : www.afcona.com

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This version replaces all previous ones.