

AFCONA-4072



Chemical Composition

Modified polyurethane polymer.

Product general description

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

Product Properties

AFCONA-4072 is a high efficient high molecular weight dispersant. It has excellent stability for inorganic, organic pigments and carbon blacks. Benefit of its steric-hindrance effect, it can stabilize all types of pigments. This is an innovative concept of polyurethane dispersants which based on our own new developed intermediate monomer and own new developed anchoring groups.

AFCONA-4072 has below special and advantages:

- Improve gloss and reduce haziness (improve DOI);
- Prevent flooding;
- Stronger color acceptance;
- Lower viscosity;
- Improve the blackness of higher level channel carbon blacks.

AFCONA-4072 has below properties and recommended to below applications:

- 1) AFCONA-4072 is an improved version of AFCONA-4071, and it has more stable for pigments. AFCONA-4072 has a particularly outstanding viscosity-reducing effect on organic red, purple and other color pigments.
- 2) AFCONA-4072 is special recommended to apply in baking systems, especially coil coatings.
- 3) AFCONA-4072 has good compatibility with most of hydroxy polyacrylate resins, polyester resins, epoxies and etc. Whenever in high-end or general industrial paint systems. And it has excellent performance for organic pigments and carbon blacks.

Note: AFCONA-4072 will become slightly hazy and crystallization below 10°C. Warm it up till clear appearance. That will not influence the dispersing property and quality of final product.

Product Specification

Non-volatile matter	34 - 36% (150°C, 0.5h)
Solvent	Butyl Acetate / Propylene glycol methyl ether acetate/ Sec-butanol
Density	0.96 - 0.99 g/cm ³ (20°C)
Amine Value	8 - 12 mg KOH/g
Gardner color	Max.6
Flash point	41°C
Appearance	Clear, pale yellowish/ 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-4072 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4072 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.