

AFCONA-4077



Chemical Composition

Modified polyurethane polymer.

Product general description

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

Product Properties

AFCONA-4077 is the result of an innovative concept in polyurethane dispersants. This innovative technology is based on newly developed intermediate monomers and anchoring groups.

AFCONA-4077 is an improved version of AFCONA-4046 and AFCONA-4050. It could be used as a direct substitute for both.

Compared to AFCONA-4046 and AFCONA-4050, it has the following properties:

- 1) AFCONA-4077 has better performance in dispersing carbon black and organic pigments.
- 2) AFCONA-4077 does not cause crystallization at low temperature. Even at -15°C, only slight haziness may be observed.
- 3) It has better compatibility with CAB, thermoplastic acrylics and NC combinations.
- 4) Overall pigment stability and performance are improved in terms of tinting strength and color brightness.

Note: AFCONA-4077 may turn slightly hazy at or below 5°C, or become thixotropic after long-term cold storage. It would recover to the standard appearance after mild shear at room temperature. That will not affect its quality or use.

Product Specification

Non-volatile matter	44 - 46% (150°C,0.5h)
Solvent	Butyl Acetate/Propylene glycol methyl ether acetate/Sec-butanol
Amine Value	15 - 25 mg KOH/g
Gardner color	Max.7
Flash point	41°C
Appearance	Clear, yellowish/slightly hazy liquid (25°C)

Addition and dosage

Calculation method for the required amount of non-volatile matter on pigment:

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

Incorporation

AFCONA-4077 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4077 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.