

AFCONA-4071



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-4071 is a highly effective polymeric dispersant for stabilizing inorganic and organic pigments as well as carbon black. Through effective steric hindrance, it provides very good stability for all types of pigments.

AFCONA-4071 offers the following advantages:

- Improved gloss and DOI, reduced haziness
- Prevention of flooding problems
- Higher colour strength
- Lower viscosity
- Improved blackness of high-grade channel carbon black

The characteristics and recommended systems for AFCONA-4071 are as follows:

- 1) AFCONA-4071 is an improved version of AFCONA-4070, offering superior pigment stability and low-temperature stability. Its viscosity-reducing and color development for carbon black/organic pigments make it one of the most outstanding grades in the AFCONA 4000 series.
- 2) AFCONA-4071 is recommended for baking systems, especially for coil coatings. It can also be applied in other resin-based coatings where compatibility allows.
- 3) AFCONA-4071 has good compatibility with almost all high-performance and general industrial coating systems based on hydroxyl acrylic resins, polyester resins, epoxy resins, etc. It also has excellent performance with organic pigments and carbon black.

Note: AFCONA-4071 may become slightly hazy or crystallize and separate when stored at or below 5°C. Slightly heat it up till uniform solution before use. That will not influence the performance.

Product Specification

Non-volatile matter	44 - 46% (150°C, 0.5h)
Solvent	Butyl Acetate / Propylene glycol methyl ether acetate/ Xylene/Sec-butanol
Amine Value	5 - 10 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-4071 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4071 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.