

AFCONA-4070



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-4070 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-4070 offers the following advantages:

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

The characteristics and recommended systems for AFCONA-4070 are as follows:

- 1) AFCONA-4070 is an improved version of AFCONA-4060, offering better pigment stability. Its viscosity reduction function is the most outstanding among all products in the AFCONA 4000 series.
- 2) AFCONA-4070 is recommended for baking systems, especially coil coatings. It can also be applied in other resin-based coatings where compatibility allows it.
- 3) AFCONA-4070 exhibits good compatibility with CAB (cellulose acetate butyrate), so it can serve as a dispersant in CAB-based coatings. It is equally suitable for coating systems that combine CAB with other resins.

Note: AFCONA-4070 may become slightly hazy when stored at or below 5°C. That will not influence the performance.

Product Specification

Non-volatile matter	29 - 31% (150°C, 0.5h)
Solvent	Propylene glycol methyl ether acetate/Xylene/Sec-butanol
Density	0.94 - 0.96 g/cm ³ (20°C)
Amine Value	6 - 16 mg KOH/g
Gardner color	Max.6
Flash point	33°C
Appearance	Clear, pale 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-4070 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4070 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 190 kg non-returnable containers

For product safety information: please refer to the product SDS.

AFCONA ADDITIVES
Web Site : www.afcona.com

This information and all further technical advice are based on our present knowledge and experience. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. We reserve the right to make any changes according to science and technological progress or further developments.

This version replaces all previous ones.