

AFCONA-4047



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-4047 is a highly effective polymeric dispersant for stabilizing inorganic and organic pigments as well as carbon blacks. Through effective steric hindrance, it provides very good stability for all types of pigments.

AFCONA-4047 offers the following advantages:

- Improved gloss and DOI, reduced haziness
- Reduced flooding problems
- Higher colour strength
- Lower viscosity

The characteristics and recommended systems for AFCONA-4047 are as follows:

- 1) AFCONA-4047 is compatible with almost all solvent-based resin systems, except for thermoplastic acrylic resins.
- 2) Due to its excellent pigment stabilizing performance, AFCONA-4047 is particularly suitable for high quality coatings, such as OEM paints, refinish paints, can and coil coatings (note that AFCONA-4070 offers better performance for this application), as well as other high quality coatings. It also can be used in epoxy, unsaturated polyester, polyurethane and other resin systems.
- 3) Due to its higher molecular weight compared to AFCONA-4046, AFCONA-4047 offers superior anti-floating and anti-flooding properties for organic pigments and carbon black. AFCONA-4047 also provides a lower grinding viscosity than AFCONA-4046.
- 4) AFCONA-4047 can be used as an effective dispersant for universal pigment concentrates preparation. For this purpose, we recommend combining it with AFCONA-1102.

Note: AFCONA-4047 may become slightly hazy when stored at or below 5°C, but this will not influence the quality.

Product Specification

Non-volatile matter	34 - 36% (150°C,0.5h)
Solvent	Butyl Acetate/Sec-butanol/Propylene glycol methyl ether acetate
Amine Value	10-20 mg KOH/g
Gardner color	Max.4
Flash point	38°C
Appearance	Clear, yellow/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-4047 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4047 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

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.