

AFCONA-4046



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-4046 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-4046 offers the following advantages:

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

The characteristics and recommended systems for AFCONA-4046 are as follows:

- 1) AFCONA-4046 is compatible with almost all solvent-based resin systems, except for thermoplastic acrylic resins.
- 2) AFCONA-4046 is mainly used in industrial paints such as baking paints, epoxy, unsaturated polyester, polyurethane and other resin systems requiring very good pigment stability.
- 3) AFCONA-4046 is also widely used as a dispersant in the preparation of universal pigment concentrates. For such applications, we recommend combining it with the universal resin, AFCONA-1102, which gives better pigment wetting and compatibility than any other universal resin available on the market.

Note: AFCONA-4046 may become slightly hazy when stored at or below 5°C, but this will not influence the quality.

Product Specification

Non-volatile matter	39 - 41%(150°C,0.5h)
Solvent	Butyl Acetate/Sec-butanol/Propylene glycol methyl ether acetate
Density	0.96 - 0.99 g/cm ³ (20°C)
Amine Value	10 - 25 mg KOH/g
Gardner color	Max.3
Flash point	41°C
Appearance	Clear to slightly hazy, yellowish 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-4046 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4046 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.