

AFCONA - 4009



Chemical Composition

Modified polyurethane polymer.

Product general description

Polymeric dispersant for deflocculation of pigments.

Product Properties:

AFCONA-4009 is a polymeric dispersant mainly for stabilizing inorganic and some organic pigments. The main advantage of AFCONA – 4009 is the very wide compatibility. It is compatible with long, medium and short oil alkyds, NC, polyurethanes, certain thermoplastic acrylics, epoxy and all the resins for baking paint. Therefore, AFCONA – 4009 is compatible with most of all solvent-based systems.

Compared to other AFCONA PU grade dispersants the viscosity reduction property of AFCONA – 4009 is not too strong, this is due to the more polar structure. However, this is not necessary a disadvantages, because not all mill bases need good viscosity reduction.

The special properties and recommended systems of AFCONA – 4009 :

- 1) Due to its particularly good combination of price and performance, AFCONA – 4009 is a very attractive product to substitute conventional wetting and dispersing agents in all kind of coating systems
- 2) AFCONA – 4009 can be used as post adding additive to correct flooding and floating in all solvent-based paints. If used in mill bases as co-grinding dispersant, the anti-flooding and floating property is also good.
- 3) The pigment concentrate based on AFCONA – 4009 give very unique properties like:
 - not easy dry up
 - very wide compatibility
 - economic

Note: AFCONA – 4009 will become slightly hazy at temperature 5°C and below, but this will not influent the quality.

Product Specification

Non-volatile matter	58 - 61% (150°C,0.5h)
Solvent	Butylacetate/PMA / Sec-butanol
Density	1.00 – 1.02 g/cm ³ (20°C)
Acid Value	10 - 17 mg KOH/g
Amine Value	8 – 15 mg KOH/g
Flash point	24°C
Gardner color	Max.5
Appearance	Clear to yellowish liquid (25°C)

Addition and dosage

Calculation method for the required amount of active ingredient of dispersant on pigment:

TiO₂ : 2 – 3%

Other inorganic pigments : 2 – 5%

Organic pigments : 20 – 40%

Carbon blacks : 20 – 50%

Incorporation

AFCONA-4009 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4009 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

25kg and 200 kg non-returnable containers

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.