

AFCONA-5008



Chemical Composition

Unsaturated polyamide and carboxylate salts.

Product general description

Ionic wetting and dispersing agent to improve wetting on pigment and organically treated Bentonite surfaces.

Product Properties

AFCONA-5008 is a dispersing agent for pigments and extenders.

It reduces the interfacial tension between pigments/extenders and the resin binder. It stabilizes the pigments through electrical charge repulsion forces.

The characteristics and recommended systems for AFCONA-5008 are as follows:

- 1) AFCONA-5008 is a very compatible polymer, so it can be used in all resin systems, ranging from non-polar to high polar systems.
- 2) AFCONA-5008 is often used in primers and some decorative paints. It is also widely used in marine and heavy-duty paints, as these paint systems do not require very high gloss finishing and the chemical and physical properties are more important than the general film aesthetic.
- 3) AFCONA-5008 can be used as a universal wetting and dispersing additive in various industrial coating systems, handling all types of pigments while offering moderate performance at low cost.
- 4) Using AFCONA-5008 also reduced pigment sedimentation through hydrogen bond formation. However, for better anti-settling performance, products like AFCONA-5066 and AFCONA-5071 perform better.
- 5) In the dispersion of organically treated Bentonite, the use of AFCONA-5008 offers the following advantages:
 - shorter dispersion time
 - easier handling of the Bentonite gel
 - improved storage stability

Note: AFCONA-5008 may become slightly hazy when stored at $\leq 5^{\circ}\text{C}$ but re-heating would restore homogeneity. This will not affect either product performance and the quality of the finished coating.

Product Specification

Non-volatile matter	48 - 52% (150°C, 0.5h)
Solvent	Alkylbenzene
Density	0.89 - 0.91 g/cm ³ (20°C)
Amine value	17 - 27 mg KOH/g
Flash point	50°C
Appearance	Yellow to light brown transparent liquid (25°C)

Addition and dosage

0.2 - 2.0% based on inorganic pigments
 2.0 - 5.0% based on organic pigments
 For Bentonite gels, use 30 - 50% on the Bentonite.

Incorporation

When used in mill-bases, add before grinding.
 For Bentonite dispersions, use as follows:

85 - 87	parts of solvent
10	parts of Bentonite
5 - 3	parts of AFCONA-5008

100 parts	

Storage

AFCONA-5008 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 180kg 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.