

AFCONA-5044



Chemical Composition

Unsaturated polyamide and carboxylate salts.

Product general description

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

Product Properties

AFCONA-5044 reduces the interfacial tension between pigments and/or extenders and the resin binder. It stabilizes the pigments through electrical charge repulsion forces.

The characteristics and recommended systems for AFCONA-5044 are as follows:

- 1) AFCONA-5044 is a very compatible polymer. It can be used in all resin systems, ranging from non-polar to high polar. AFCONA-5044 does not affect the pot-life in two-pack systems.
- 2) AFCONA-5044 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 overall film appearance.
- 3) Using AFCONA-5044 will also decrease pigment sedimentation, as it induces hydrogen bond formation in the system. However, for better anti-settling performance, products like AFCONA-5066 and AFCONA-5071 will perform better.
- 4) In the dispersion of organically treated Bentonite, the use of AFCONA-5044 offers the following advantages:
 - shorter dispersion time
 - easier handling of the Bentonite gel
 - improved storage stability.

Note: AFCONA-5044 may become slightly hazy when stored at or below 5°C. This will not affect the overall quality.

Product Specification

Non-volatile matter	50 - 54% (150°C,0.5h)
Solvent	Xylene/Iso-butanol/ 1,3-propanediol
Density	0.93 - 0.95 g/cm ³ (20°C)
Acid value	25 - 45 mg KOH/g
Amine value	5 - 15 mg KOH/g
Flash point	34°C
Appearance	Transparent,brownish 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. In Bentonite dispersions use as follows:

85 - 87	parts of solvent
10	parts of Bentonite
5 - 3	parts of AFCONA-5044

100 parts	

Storage

AFCONA-5044 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

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This version replaces all previous ones.