

AFCONA – 5044



Chemical Composition

Unsaturated polyamide and acid ester salts

Product general description

Anionic/cationic wetting and dispersing additive to improve the wetting of pigment surfaces and organically treated Bentonites

Product Properties

AFCONA-5044 is an additive for pigment dispersion. It reduces the interfacial tension between pigments or extenders and the vehicle. It stabilizes the pigments through electrical charge repulsion forces.

AFCONA – 5044 has below special properties and recommended in below systems:

- 1) AFCONA – 5044 is a very compatible polymer. It can be used in all resin systems, ranging from none polar to high polar systems. The pot-life of two-pack systems is not affected by using AFCONA – 5044.
- 2) Often, AFCONA – 5044 is used in primer and some decorative paint. It 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 appearance.
- 3) Using AFCONA – 5044 will also decreased pigment sedimentation, because it will induce hydrogen bond formation in the system. However, for better anti-settling products like AFCONA – 5066 and AFCONA – 5071 will perform much better.
- 4) In the dispersion of organically treated Bentonites, the use of AFCONA-5044 offers the following advantages:
 - shorter dispersion time
 - easier handling of the Bentonite gel
 - improved storage stability

Note: AFCONA – 5044 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

Active ingredients	50 - 54%
Solvents	Xylene / n-butanol / Monopropyleneglycol
Density at 20 °C	0.93 - 0.95 g/cm ³
Amine value	5 -15 mg KOH/g
Acid value	25 – 45 mg KOH/g
Flashpoint	25°C
Appearance	transparent yellowish to brownish liquid

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 Bentonites

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 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

25 kg and 180 kg non-returnable containers