

# 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

Non-volatile matter	50 - 54% (150°C,0.5h)
Solvent	Xylene/Iso-butanol/ propylene glycol
Density	0.93 – 0.95 g/cm <sup>3</sup> (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 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

25kg and 190 kg non-returnable containers

AFCONA ADDITIVES

Web Site : [www.afcona.com](http://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.