

# AFCONA - 5209



## Chemical Composition

Fatty acid modified polyamide

## Product general description

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

## Product properties

AFCONA-5209 is the 100% version of AFCONA - 5009. It reduces the interfacial tension between pigments or extenders and the vehicle. It stabilizes the pigments through electrical charge repulsion forces.

AFCONA – 5209 has below special properties and recommended in below systems:

- 1) AFCONA – 5209 is an excellent choice for Bentonite gelling where it result in excellent anti-sagging and anti-settle without increase too much of the system viscosity. To ensure a good Bentonite gelling paste as described above, AFCONA – 5209 must be incorporated before loading the Bentonite powder.
- 2) Often, AFCONA – 5209 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 – 5209 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) AFCONA – 5209 are best in long oil, medium oil, short oil, NC, TPA, Acid curing, polyurethane and epoxy system.

Note: AFCONA – 5209 will become slightly hazy at temperatures below 5° C. It will form crystallization if store at temperature below 2C. Upon reheat, this will not influence the quality

## Product Specification

Non-volatile matter	≥96% (150°C,0.5h)
Density	0.90 – 0.92 g /cm <sup>3</sup> (20°C)
Amine Value	< 5 mgKOH/g
Acid value	160-220 mgKOH/g
Appearance	transparent yellowish to brownish liquid (25°C)

## Addition and dosage

0.2 - 2.0% based on inorganic pigments  
2.0 - 5.0% based on organic pigments

## Bentonite Gelling

87-88	parts of solvent
3 - 2	parts of AFCONA-5209 (must load in and homogenously disperse in the solvent part before loading the Bentonite powder)
<u>10</u> _ _	parts of Bentonite
100 parts	

## Incorporation

When used in mill-bases, add before grinding. For Bentonite gelling preparation, please see above recommended formulation and processing procedure.

## Storage

AFCONA-5209 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

## Packaing

25 kg and 180 kg non-returnable containers

AFCONA ADDITIVES

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

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This version replaces all previous ones.