

AFCONA-5209



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-5209 is the solvent-free version of AFCONA-5009. It reduces the interfacial tension between pigments and/or fillers and the resin binder. It stabilizes the pigments through electrical charge repulsion forces.

The characteristics and recommended systems for AFCONA-5209 are as follows:

- 1) AFCONA-5209 is an excellent choice for Bentonite gel where it results in excellent anti-sagging and anti-settling without increasing too much of the system viscosity. To ensure a good Bentonite gel paste as described above, AFCONA-5209 must be incorporated before loading the Bentonite powder.
- 2) AFCONA-5209 is often used in primer and some decorative paints. It is also widely used in marine and heavy-duty paints, as these paint systems do not usually require a very high gloss finishing, and the chemical and physical properties are more important than the film general appearance.
- 3) Using AFCONA-5209 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 much better.
- 4) AFCONA-5209 is best in long oil, medium oil, short oil, NC, TPA, acid curing, polyurethane and epoxy systems.

Note: AFCONA-5209 may become slightly hazy when stored at or below 5°C. It may crystallize if store at a temperature below 2°C. Upon reheat prior to use, that will not affect the quality.

Product Specification

Non-volatile matter	≥96% (150°C,0.5h)
Density	0.88 - 0.92 g/cm ³ (20°C)
Acid value	160 - 220 mg KOH/g
Amine value	<5 mg KOH/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 (load into and homogeneously disperse in the solvent part before loading the Bentonite powder)
$\frac{10}{100}$ — —	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 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

25 kg and 180kg non-returnable containers.

For product safety information: please take reference of SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.