

AFCONA-5071



Chemical Composition

Alkylol ammonium salt of a high-molecular weight carboxylic acid.

Product general description

An ionic wetting and dispersing agent for preventing pigment settling, flooding and floating.

Product properties

AFCONA-5071 helps to prevent interfacial tension between the hydrophilic pigments/extenders and the binders, and stabilizes the pigments through electrical charge repulsion forces.

The characteristics and recommended systems for AFCONA-5071 are as follows:

- 1) Anti-settling and anti-sagging properties.
- 2) It is mainly used for inorganic pigments and extenders in water-based coatings. AFCONA-5071 is also suitable for solvent-based coatings, where it is selected due to its good anti-settling performance.
- 3) Compared to other types of anti-settling agents, AFCONA-5071 also gives wetting and dispersing properties and will not either influence nor reduce the gloss of the system.
- 4) AFCONA-5071 is suitable for use in low to high-polar solvent-based systems as well as water-based coatings. It can be used to reduce flooding, floating and settling in non-polar systems, like air drying alkyd paints.
- 5) Combination of AFCONA-5071 and AFCONA-4560 is very effective to disperse inorganic pigments and fillers, where this dispersion is left standing at very dilute viscosity, such as F#4 cup at 8 - 12 seconds, for many hours without stirring. Soft settling will form, but there will be either no separation (depending on the particle size of the filler; more than 15µm may cause separation) nor hard settling. The ratio between them is 3:1 (AFCONA-4560 : AFCONA-5071).

Note: AFCONA-5071 may become slightly hazy when stored at or below 5°C, but that would not affect its quality.

Product Specification

Non-volatile matter	50 - 54% (150°C, 0.5h)
Solvent	Water
Density	1.08 - 1.10 g/cm ³ (20°C)
Acid value	90 - 110 mg KOH/g
Amine value	95 - 130 mg KOH/g
Flash point	>100°C
Appearance	Transparent, yellow to brownish liquid (25°C)

Addition and dosage

- 0.5 - 2% based on inorganic pigments
- 2.5 - 5% based on organic pigments

Incorporation

AFCONA-5071 should be incorporated during the grinding stage.

Storage

AFCONA-5071 shall be stored in cool, dry and freeze-proof place. Shelf-life is 3 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

30kg and 210kg 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.