

AFCONA-5285



Chemical Composition

An ionic co-polymer with acidic groups.

Product general description

Wetting and dispersing agent for solvent-based paints.

Product Properties

AFCONA-5285 is an acidic-terminated alkyl ethoxylated co-polymer. The acidic group gives a very good anchoring effect on base pigments like inorganic pigments and matting agents. It helps in viscosity reduction of filler and extender dispersions.

The characteristics and recommended systems for AFCONA-5285 are as follows:

- 1) Very good dispersant for matting agent pastes. It gives better transparency compared to AFCONA-4010.
- 2) Very good in viscosity reduction. Therefore, suitable as dispersant for high filler load systems.
- 3) Also suitable for oil and solvent-based printing inks, especially for inorganic pigment and filler dispersions in alcohol-rich systems.
- 4) It also helps to reduce the interfacial tension between pigments or extenders and the vehicle. Therefore, it will help to shorten the grinding time.
- 5) It can be used in all resin systems ranging from non-polar to high polar systems like air-drying alkyd, acid curing, polyurethane and epoxy.
- 6) It is also suitable for all kinds of pigments ranging from inorganic, organic and carbon black. It is also suitable for co-grinding.

Note: AFCONA-5285 may become hazy or even crystallize when stored at or below 15°C. If crystallization occurs, reheat the material before use. This does not affect the product quality. AFCONA-5285 solutions in ketone solvents remain stable during low-temperature storage.

Product Specification

Non-volatile matter	≥ 95% (120°C, 0.5h)
Density	1.05 - 1.09 g/cm ³ (20°C)
Acid value	100 - 105 mg KOH/g
Gardner color	Max.8
Flash point	>100°C
Appearance	Clear to slightly hazy, yellow liquid (25°C)

Addition and dosage

0.5 - 1.5% based on TiO₂ or extenders
 3.0 - 5.0% based on other inorganic pigments
 10 - 30% based on organic pigments.

For air-drying alkyd, the optimal dosage is 0.07% based on total formulation. This dosage is suitable for organic and inorganic pigments in separate grinding or co-grinding.

Incorporation

AFCONA-5285 should be added before the pigment dispersion process.

Storage

AFCONA-5285 shall be stored in cool and dry place away from direct sunlight, preferably at room temperature not below 20°C. When the temperature drops below 15°C, haze and particle precipitation may occur. 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

30kg and 210kg 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.