

AFCONA-5011



Chemical Composition

Solution of modified phosphate ester co-polymer.

Product general description

An ionic wetting and dispersing additive for inorganic pigments, mainly for TiO₂ and extenders.

Product Properties

AFCONA-5011 helps to wet and disperse inorganic pigments, mainly TiO₂, and extenders, and it can reduce the viscosity of the slurry. It is recommended for pure white coating systems.

The characteristics and recommended applications of AFCONA-5011 are as follows:

- 1) AFCONA-5011 is a high-efficiency wetting and dispersant specially designed for dispersing TiO₂ and extenders.
- 2) AFCONA-5011 has very good viscosity reduction properties. In high extender loaded systems, like UPE in artificial marble, it gives very strong viscosity reduction to allow higher filler loading, and also offers some anti-settling properties.
- 3) In electrostatic spraying system for pure white paint, AFCONA-5011 gives the highest gloss performance.
- 4) AFCONA-5011 is particularly suitable for the following coating systems:
 - automotive (OEM and refinish)
 - general industrial
 - coil coating
 - floor coatings
 - UV curing

The high acid value of AFCONA-5011 could have a catalyzing effect in the reaction in stoving enamels. This may lead to viscosity increase during storage.

Note: AFCONA-5011 may become slightly hazy and crystallize when stored at below 2°C and under extremely cold conditions. It can be heated up at around 40°C and mixed thoroughly before use. This will not affect the overall quality.

Product Specification

Non-volatile matter	50 - 54% (120°C, 0.5h)
Solvent	Propylene glycol methyl ether acetate/Alkylbenzen /Sec-butanol
Density	0.99 - 1.03 g/cm ³ (20°C)
Acid value	48 - 58 mg KOH/g
Flash point	38°C
Appearance	Transparent, slightly yellowish liquid (25°C)

Addition and dosage

2.0 - 4.0% based on TiO₂ or extenders

5.0 - 10.0% based on other inorganic pigments

Incorporation

AFCONA-5011 should be added during the dispersion process and mixed uniformly with the base resin under shear force.

Storage

AFCONA-5011 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

25kg and 200kg 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.