

AFCONA-5010



Chemical Composition

Polyester-modified polyphosphate ester compound

Product general description

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

Product Properties

AFCONA-5010 helps to wet and disperse inorganic pigments, mainly TiO₂, and extenders. It is specially designed as effective dispersant for TiO₂. Therefore, it is recommended for pure white systems. However, if later the white base needs to be tinted with other colors, AFCONA-4010 would be a better fit.

The characteristics and recommended systems for AFCONA-5010 are as follows:

- 1) AFCONA-5010 is tailor made as an effective dispersant for TiO₂ and extenders.
- 2) AFCONA-5010 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.
- 3) Due to the effective viscosity reduction, AFCONA-5010 also decreases dispersing time.
- 4) In electrostatic spraying system for pure white paint, AFCONA-5010 gives the highest gloss performance.
- 5) AFCONA-5010 is particularly suitable for the following coating systems:
 - automotive (OEM and refinish)
 - general industrial
 - coil coating
 - acid-curing
 - epoxy floor coating

AFCONA-5010 could have a catalyzing effect in the reaction in stoving enamels. This may lead to viscosity increase during storage.

Note: AFCONA-5010 may become slightly hazy when stored at or below 5°C. This will not affect the overall quality.

Product Specification

Non-volatile matter	48 - 56% (150°C, 0.5h)
Solvent	Xylene/Sec-butanol
Density	0.98 - 1.02 g/cm ³ (20°C)
Acid value	60 - 80 mg KOH/g
Gardner color	Max.6
Flash point	33°C
Appearance	Transparent, yellowish liquid (25°C)

Addition and dosage

1.0 - 4.0% based on TiO₂ or extenders
5.0 - 10.0% based on other inorganic pigments

Incorporation

AFCONA-5010 should be added during the dispersion process.

Storage

AFCONA-5010 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.