

AFCONA-5210



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-5210 is a wetting and dispersing agent specifically designed for titanium dioxide and extenders, and is recommended for pure white coating systems. If the white paste needs to be tinted with other colors, AFCONA-4010 is the more suitable choice.

The characteristics and recommended systems for AFCONA-5210 are as follows:

- 1) AFCONA-5210 is tailor made as an effective dispersant for TiO₂ and extenders.
- 2) AFCONA-5210 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-5210 also decreases dispersing time.
- 4) AFCONA-5210 is particularly suitable for the following coating systems:
 - Automotive (OEM and refinish)
 - General industrial
 - Coil coating
 - Acid curing

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

Note: AFCONA-5210 is a waxy solid at room temperature. However, this does not impair its performance or application properties.

Product Specification

Non-volatile matter	≥95% (120°C, 0.5h)
Acid value	120 - 140 mg KOH/g
Flash point	>100°C
Appearance	Yellow to yellowish brown waxy solid (25°C)

Addition and dosage

1.0 - 4.0% based on TiO₂ or extenders;
3.0 - 10.0% based on other inorganic pigments.

Incorporation

AFCONA-5210 should be added during the dispersion process.

Storage

AFCONA-5210 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

30kg and 220kg 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.