

AFCONA - 5010



Chemical Composition

Solution of an acidic polyester phosphorous compound.

Product general description

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

Product Properties:

AFCONA-5010 helps to wet and disperse inorganic pigments, mainly TiO₂, and extenders. AFCONA – 5010 is special designed as effective dispersant for TiO₂. Therefore, recommended for pure white systems. However, if later the white base need to be tinted with other colors, AFCONA-4010 will be more suitable.

AFCONA – 5010 has below special properties and recommended in below systems:

- 1) AFCONA – 5010 is tailor made as effective dispersant for TiO₂ and extenders.
- 2) It has very good viscosity reduction properties. In high extender loaded systems, like UPE in artificial marble, AFCONA 5010 gives very strong viscosity reduction to allow higher filler loading.
- 3) Due to the effective viscosity reduction, it also decreases dispersing time.
- 4) AFCONA-5010 is particularly suitable for the following coating systems:
 - automotive (OEM and refinish)
 - general industrial
 - coil coating
 - acid curing
 - Epoxy floor coating
- 5) In electrostatic spraying system for pure white paint, AFCONA – 5010 gives the highest gloss performance.

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

Note: AFCONA – 5010 will become slightly hazy at temperatures below 5° C. This will not influence the 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
Flash point	33°C
Gardner color	Max.6
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 prior to the dispersion process.

Storage

AFCONA-5010 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

25kg and 200 kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.