

AFCONA-5065



Chemical Composition

High-molecular-weight unsaturated carboxylic acid, combined with a very compatible organically modified polysiloxane.

Product general description

Wetting and dispersing agent for preventing pigment flooding and floating.

Product Properties

AFCONA-5065 is a very effective dispersant. The performance is close to that of high molecular weight dispersants. However, this might not be always enough.

It is recommended for medium to high polar systems, such as PU, UPE, UV, NC, baking paints and acid curing. It is also widely used in printing ink. It is not recommended for air-drying alkyds, because of incompatibility with these systems.

The characteristics and recommended systems for AFCONA-5065 are as follows:

- 1) AFCONA-5065 can act as an additive for post-addition to correct flooding and floating of coatings. It will re-flocculate those inorganic pigments to the same degree as the organic pigments, and so offering the same kinetics. Using this method to solve flooding and floating sometimes may affect gloss of the dry film, especially when the dosage is higher than 0.8% of the total formulation.
- 2) AFCONA-5065 is also widely used together with high molecular weight dispersants, such as AFCONA-4010, AFCONA-4050 or AFCONA-4046, as an effective co-grinding dispersant in a ratio of 1:1 to 3:1 (high molecular weight dispersant : AFCONA-5065). However, for foam-sensitive systems like coil coatings and floor coatings AFCONA-5066 is a better recommendation.
- 3) AFCONA-5065 is not compatible with white spirit or paints which are diluted with white spirit.

Note: AFCONA-5065 may become slightly hazy when stored at $\leq 5^{\circ}\text{C}$, but that would not affect its quality.

Product Specification

Non-volatile matter	50 - 54% (150°C, 0.5h)
Solvent	Alkylbenzene/ Diisobutylketone
Density	0.94 - 0.96 g/cm ³ (20°C)
Acid value	80 - 150 mg KOH/g
Flash point	41°C
Appearance	Clear to slightly hazy, brownish liquid (25°C)

Addition and dosage

0.5 - 2.5% based on inorganic pigments or
0.1 - 1.0% based on total formulation, normally
at 0.5% based on total formulation.

Incorporation

AFCONA-5065 should be added before grinding and dispersion. If added subsequently, high-speed dispersion is necessary.

Storage

AFCONA-5065 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 190kg 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.