

AFCONA-4205



Chemical Composition

Modified polyurethane polymer.

Product general description

High molecular weight wetting and dispersing agent for various pigment dispersion systems.

Product properties

AFCONA-4205 has a specially designed steric hindrance long-chain structure and anchoring groups. It has excellent wetting and dispersing properties for organic pigments and carbon blacks.

AFCONA-4205 is very suitable for use in polyether polyol and plasticizer pigment concentrate pastes. It can reduce the viscosity of highly concentrated pigment pastes and maintain stability of pigment pastes for long-term storage. Meanwhile, it contains no volatile solvents, which benefits formulation design for VOC control.

The properties of AFCONA-4205 are as below:

- 1) AFCONA-4205 is widely compatible with most resins and is miscible with most solvent-based resin systems.
- 2) AFCONA-4205 is especially suitable for manufacturing highly concentrated pastes with all kinds of polyether polyols, as it lowers the viscosity of pigment pastes.
- 3) Because of its 100% solids content, AFCONA-4205 is very suitable for high-solid and solvent-free coatings and printing inks.

Product Specification

Non-volatile matter	≥95% (150°C, 0.5h)
Density	1.02 - 1.06 g/cm ³ (20°C)
Amine value	5 - 10 mg KOH/g
Flash point	> 100°C
Appearance	Transparent, yellow to tawny viscous liquid (25°C)

Addition and dosage

Calculation method for the required amount of active ingredient on pigment:

TiO ₂ :	2-3%
Other inorganic pigments :	5-10%
Organic pigments :	20-40%
Carbon blacks :	30-80%

Incorporation

AFCONA-4205 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4205 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 200kg non-returnable containers.

For product safety information: please refer to the product SDS.