

AFCONA – 4205



Chemical Composition

Modified polyurethane polymer

Product general description

High molecular weight polymeric dispersant for all type of pigments.

Product properties

AFCONA-4205 has special designed steric hindrance long chain structure and anchor terminal groups. It has excellent wetting and dispersing properties for organic pigments and carbon blacks.

AFCONA-4205 is very suitable for polyether polyol and plasticizer pigment concentrate paste. It can reduce the viscosity of highly concentrated pigment paste, and keep the stability of pigment paste for long period storage. Meanwhile, it benefits to formulation design of VOC control..

The properties of AFCONA-4205 as below:

- AFCONA-4205 has widely compatibility in most of resins.
- AFCONA-4205 is especially suitable for manufacturing highly concentrated pastes of all kinds of polyether polyol. And lower the viscoisty of pigment pastes.
- Because of 100% solid content of AFCONA-4205, it 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 black :	30 - 80%

Incorporation

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

Storage

AFCONA – 4205 should be stored in a cool and dry place. When kept in an original unopened container, it will keep up for 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

30kg and 200kg un-returnable opening plastic containers.