AFCONA - 4016



Chemical Composition

Modified polyurethane polymer.

Product general description

Polymeric dispersant mainly for inorganic pigments and some organic pigments.

Product Properties:

AFCONA-4016 is a polymeric dispersant principally developed for stabilizing inorganic pigments like TiO2, Iron oxides and matting agents. It could also stabilize organic pigments and the performance is better than AFCONA – 4010 or AFCONA 4009 in organic and carbon black. It can be used in almost all solvent-based coating systems due to it very good compatibility with almost all resins.

The special properties and recommended systems for AFCONA – 4016 as below:

- 1) Due to it lower price comparing to AFCONA 4050, AFCONA 4016 are often use in price sensitive system like drum paint, NC and unsaturated polyester.
- 2) AFCONA 4016 also have good compatibility with CAB and Thermoplastic acrylic. Thus also suitable for refinish paint where price is a concern. However for this system our AFCONA 4200 or AFCONA 4077 are much better choice.
- 3) AFCONA 4016 can be used as co-grinding dispersant in mill bases. It also can act as post adding additive for correction of flooding and floating effects.
- 4) AFCONA-4016 has been developed as a general dispersing agent for all solvent-based paints from high performance industrial coatings to normal decorative paints. It has very good pigment stability performance on inorganic pigments and some selected organic pigments.

Note: AFCONA – 4016 will become slightly hazy at temperature 5°C and below, heat up and well mixed. This will not influent the quality.

Product Specification

Non-volatile matter 49 - 54% (150°C,0.5h)

Solvent PMA/BAC/Alkylbenzene

Density $0.96-1.00 \text{ mg/cm}^3 (20^{\circ}\text{C})$

Acid Value 16 - 32 mg KOH/g

Amine Value 8 - 14 mg KOH/g

Flash point 43°C

Gardner Color Max.5

Appearance Clear to slightly hazy,

yellow liquid (25°C)

Addition and dosage

Calculation method for the required amount of AFCONA-4016 on pigment:

 $\begin{array}{ll} \text{TiO2:} & 2 - 4\% \\ \text{Other inorganic pigments:} & 5 - 10\% \\ \text{Organic pigments:} & 20 - 40\% \\ \text{Carbon blacks:} & 30 - 60\% \end{array}$

However the optimum dosage will be 1% in total

formulation.

Incorporation

AFCONA-4016 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4016 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