AFCONA – 4010E



Chemical Composition

Modified polyurethane polymer with caprolactone

Product general description

Polymeric dispersant mainly for inorganic pigments and some organic pigments

Product Properties

AFCONA-4010E is a polymeric dispersant principally developed for stabilizing inorganic pigments like TiO2, Iron oxides and matting agents. It can be used in almost all solvent-based coating systems, because AFCONA – 4010E has very good compatibility with almost all resin used in coatings.

The special properties and recommended systems for AFCONA – 4010E as below:

- 1) AFCONA 4010E is a very good dispersant for TiO2 as it gives better whiteness and hiding power.
- 2) AFCONA 4010E is widely used in preparation of matting agent pastes. It gives better matting agent orientation, constant gloss level after storage and soft feel matting appearance. The guide formulation of matting agent paste as below:

 $\begin{array}{lll} Resin (50\text{-}60\% solid) & 30-35\% \\ Matting agent & 20-30\% \\ AFCONA 4010E & 4-6\% \\ Solvents combination & the rest \\ \end{array}$

- 3) AFCONA 4010E can be used as cogrinding dispersant in mill bases. It also can act as post adding additive for correction of flooding and floating effects.
- 4) Mostly, AFCONA 4010E is used as dispersant for inorganic pigments and some organic pigments. In case, AFCONA 4010E fail with organic pigments, other more effective and higher molecular weight AFCONA polymeric dispersants must be used. It is always possible to mix combinations of pigments stabilized with AFCONA-4010E and organic pigments stabilized with higher molecular weight dispersants.

hazy at temperature 5°C and below, but this will not influent the quality.

Product specification	
Active ingredients	50 – 54%
Solvents	Desterior actata / Mathama
Solvents	Butylacetate / Methoxy Propyl Acetate/
	Alkylbenzene
	Aikyidelizelle
	3
Density at 20 °C	$0.96 - 1.00 \text{ g/cm}^3$
Amine value	6 16 mg VOU/g
Allillie value	6 - 16 mg KOH/g
Acid value	8 - 18 mg KOH/g
Ticia varac	
Flashpoint	24°C
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Colour	max.6

Addition and dosage

Titanium dioxide : 2 - 4% (as supplied)
Inorganic pigments : 5 - 10% (as supplied)
Carbon blacks : 20 - 40% (as supplied)
: 30 - 60% (as supplied)

Incorporation

AFCONA-4010E should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4010E 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

25 kg and 190 kg non-returnable containers