

AFCONA – 4011



Chemical Composition

Modified polyurethane polymer

Product general description

Polymeric dispersant mainly for inorganic pigments and some organic pigments

Product Properties

AFCONA – 4011 is an improve version of AFCONA 4010 with better balance between price and performance. AFCONA-4011 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 – 4011 has very good compatibility with almost all resin used in coatings.

The special properties and recommended systems for AFCONA – 4011 as below:

- 1) AFCONA – 4011 is a very good dispersant for TiO₂ as it gives better whiteness and hiding power.
- 2) AFCONA – 4011 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.
- 3) AFCONA – 4011 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) Mostly, AFCONA – 4011 is used as dispersant for inorganic pigments and some organic pigments. In case, AFCONA – 4011 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-4011 and organic pigments stabilized with higher molecular weight dispersants.

Note: AFCONA – 4011 will become slightly hazy at temperature 5°C and below, but this will not influent the quality.

Product specification

Active ingredients	50 – 54%
Solvents	Butylacetate / Methoxy Propyl Acetate/ Alkylbenzene
Density at 20 °C	0.96 – 1.00 g/cm ³
Amine value	6 - 16 mg KOH/g
Acid value	8 - 18 mg KOH/g
Colour	max.6

Addition and dosage

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

Incorporation

AFCONA-4011 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4011 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