

AFCONA – 4000



Chemical Composition

Modified polyurethane polymer

Product general description

High molecular weight polymeric dispersant for deflocculation of all type of pigments

Product Properties

AFCONA- is a result of an innovative concept of polyurethane dispersants. This innovative technology is based on an own new developed intermediate monomer and own new developed anchoring groups.

AFCONA – 4000 is higher molecular weight version of AFCONA – 4200.

AFCONA – 4000 has below special properties and recommended in below systems:

- 1) Beside the good compatibility property as AFCONA 4200, AFCONA – 4000 have higher molecular weight and the performance in ordinary systems like Polyurethane, epoxy, baking paint and etc is better than AFCONA – 4200.
- 2) AFCONA – 4000 can be used to substitute our previous version of Polyurethane dispersant, such as, AFCONA – 4046, AFCONA – 4047 and AFCONA – 4050. However a real substitute is our AFCONA – 4077.

AFCONA – 4000 is recommended:

- 1) Thermoplastic acrylic
- 2) CAB containing system
- 3) Polyurethane
- 4) Baking paint that based on alkyd, acrylic and saturated polyester.

Note:

- 1) AFCONA – 4000 will become slightly hazy at temperatures below 5° C. Even at -15° C the slight haziness stay the same. This will not influence the dispersing quality.

Product specification

| | |
|--------------------|---|
| Active ingredients | 64 - 66% |
| Solvents | Butylacetate/ Methoxy Propyl Acetate / isobutanol |
| Density at 20 °C | 0.98 – 1.00g/cm ³ |
| Amine value | 10 - 15 mg KOH/g |
| Flashpoint | 24°C |
| Colour | max.4 |

Addition and dosage

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

| | |
|--------------------------|------------|
| TiO ₂ | : 2 - 3% |
| Other inorganic pigments | : 2 - 4% |
| Organic pigments | : 20 - 40% |
| Carbon blacks | : 20 - 60% |

Incorporation

AFCONA-4000 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4000 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