

AFCONA – 4201



Chemical Composition

Modified polyurethane polymer

Product general description

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

Product Properties

AFCONA-4201 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 – 4201 is based on the same chemical structure as AFCONA – 4200. Compared to AFCONA-4200 it has a longer polymer tail, which proved better steric hindrance. Compared to AFCONA – 4200 the differences are as below:

- 1) AFCONA – 4201 performs better in pigment stability and colour and gloss
- 2) AFCONA – 4201 has better compatibility and better performance in common resin systems such as PU, epoxy, polyester/melamine, thermosetting acrylic/melamine, alkyd/melamine, acid curing, NC and UV. However AFCONA – 4200 is better in more difficult systems such as thermoplastic acrylic.
- 3) AFCONA – 4201 supply in almost 100% active ingredients, therefore, it is an excellent dispersant for high solid coatings like Polyurethane, epoxy and UV coating.
- 4) The almost 100% solvent-free form makes it also a very interesting dispersant for ink formulations. This due to the free choice of solvents.

Note:

- 1) AFCONA – 4201 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.
- 2) There may be some slight thixotropic behaviour and this due to the catalyst that we use during polymerization. This will not influence overall the performance of AFCONA - 4201

Product specification

Active ingredients	≥ 96%
Reflective index	1.468 – 1.478
Amine value	11 - 21 mg KOH/g
Colour	max.6

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-4201 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4201 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