AFCONA - 4201



Chemical Composition

Modified polyurethane polymer.

Product general description

High molecular weight polymeric dispersant for defloculation 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 of AFCONA-4200. Compare 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 quality.
- 2)There may be some slight thixotropic behavior. This is due to the catalyst that we use during polymerization. But this will not influence the overall performance of AFCONA 4201.

Product Specification

Non-volatile matter $\geq 96\%$ (150°C,0.5h)

Amine Value 11 - 21 mg KOH/g

Gardner color Max.6

Flash point >100°C

Appearance Clear to slightly hazy,

yellow liquid (25°C)

Addition and dosage

Calculation method for the required amount of AFCONA-4201 on pigment:

TiO2: 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

30kg and 210 kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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