

AFCONA-4201



Chemical Composition

Modified polyurethane polymer.

Product general description

A high molecular weight polymeric dispersant for de-flocculation of all types of pigments.

Product Properties

AFCONA-4201 is a high-efficiency, high-molecular-weight dispersant specially designed by AFCONA. The product incorporates AFCONA's latest steric hindrance long-chain structure and newly designed anchoring groups, offering excellent stability for inorganic and organic pigments, as well as carbon black. AFCONA-4201 is supplied as nearly 100% solid content.

AFCONA-4201 is based on the same chemical structure as AFCONA-4200 but features a longer polymer tail, which provides better steric hindrance. The main differences compared with AFCONA-4200 are as follows:

- 1) AFCONA-4201 performs better in pigment stability, 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) As AFCONA-4201 is supplied at almost 100% active content, it is an excellent dispersant for high solid coatings like polyurethane, epoxy and UV coating.

Note: AFCONA-4201 may increase in apparent viscosity and develop slight, uniform haziness when stored at or below 5°C. This does not affect quality or dispensing accuracy.

Product Specification

Non-volatile matter	≥96% (150°C, 0.5h)
Amine Value	11 - 21 mg KOH/g
Gardner color	Max.6
Flash point	>100°C
Appearance	Clear, pale yellow to slightly hazy liquid (25°C)

Addition and dosage

Calculation method for the required amount of non-volatile matter 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 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 5 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

30kg and 210kg non-returnable containers

For product safety information: please refer to the product SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.