

AFCONA-4202



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-4202 is a high-efficiency, high-molecular-weight dispersant specially designed by AFCONA. It 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-4202 contains no added organic solvents.

Due to its wide compatibility, AFCONA-4202 is highly recommended for the formulation of solvent-based Resin Minimum Pigment Concentrate.

The properties of AFCONA-4202 are as below:

- 1) AFCONA-4202 gives good viscosity reduction and pigment stability.
- 2) AFCONA-4202 has very good compatibility and performance in common resin systems such as PU, epoxy, polyester/melamine, thermosetting acrylic/melamine, alkyd/melamine, acid curing, NC, UV as well as thermoplastic acrylic.
- 3) Due to its nearly 100% solid content, it is particularly suitable for high-solid coatings and ink systems such as polyurethane, epoxy, and UV coatings.

Note: AFCONA-4202 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	≥90% (120°C, 0.5h)
Density	1.05 - 1.09 g/cm ³ (20°C)
Amine Value	3 - 10 mg KOH/g
Gardner color	Max.13
Flash point	>100°C
Appearance	Clear or slightly hazy, yellow to brownish 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-4202 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4202 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.