

AFCONA-4700



Chemical Composition

Modified polyacrylate polymer based on CRP technology.

Product general description

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

Product Properties

AFCONA-4700 is an effective polymeric dispersant based on AFCONA CRP technology. It has excellent performance in stabilizing inorganic and organic pigments. It has very good stability in carbon black dispersion, achieving very high jetness. In metallic systems, it provides a golden undertone in high-grade channel black dispersion.

AFCONA-4700 offers the following advantages:

- Improved gloss and DOI, reduced haziness
- Prevention of flooding problems
- Higher colour strength
- Lower viscosity
- Enhanced jetness of high-grade channel black

AFCONA-4700 is recommended for:

- 1) As the first general grade in the AFCONA CRP 47XX series, AFCONA-4700 can be used in nearly all known solvent-based resin systems. It exhibits particularly outstanding color development for carbon black.
- 2) AFCONA-4700 is often recommended for automotive OEM and refinish paints, as well as various high-grade industrial coatings.
- 3) The excellent compatibility of AFCONA-4700 also enables its use in preparing universal color concentrates.
- 4) Due to its special anchoring end groups, AFCONA-4700 itself has a relatively dark appearance, which does not affect the color of the final coating during actual dispersion.

Note: AFCONA-4700 may gradually turn tawny after long-term storage and become slightly hazy below 5°C. Neither of those will affect its dispersing quality.

Product Specification

Non-volatile matter	48 - 52% (150°C, 0.5h)
Solvent	Propylene glycol methyl ether acetate
Density	1.01 - 1.05 g/cm ³ (20°C)
Amine Value	20 - 30 mg KOH/g
Flash point	44°C
Appearance	Clear to slightly hazy liquid (25°C)

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-4700 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4700 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 200kg non-returnable containers

For product safety information: please take reference of SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.