

AFCONA-4701-100



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-4701-100 is a solvent-free, 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 gives a golden undertone in high channel black dispersion. It also provides excellent colour development, transparency and colour strength for pigments that are hard to disperse, such as DPP and high jetness carbon blacks.

AFCONA-4701-100 has the following properties:

- 1) It has very good viscosity reduction in all pigments.
- 2) It significantly increases the jetness and blue undertone of high channel black.
- 3) It gives better transparency for all organic pigments (excluding the good hiding pigments).
- 4) It can be used in all solvent systems except those where white spirit or low aromatic hydrocarbons are used as the solvent.

AFCONA-4701-100 is recommended for:

- 1) It exhibits good compatibility with most solvent-based resin systems and can be used to prepare resin-containing mill bases and universal color concentrates. Such universal color concentrates also show excellent compatibility with difficult-to-mix resin systems such as thermoplastic acrylic and nitrocellulose resins.
- 2) Recommended for use in automotive OEM coatings, refinish paints, and various high-performance industrial coatings.
- 3) It can be used to prepare resin-free aqueous color pastes. The aqueous color pastes produced demonstrate good storage stability and incorporation compatibility with letdown resins.

Note: AFCONA-4701-100 may become slightly hazy when stored below 5°C. That will not influence the dispersing quality.

Product Specification

Non-volatile matter	≥ 96% (120°C, 0.5h)
Density	1.075 - 1.105g/cm ³ (20°C)
Amine Value	26 - 34 mg KOH/g
Flash point	>100°C
Appearance	Clear to slightly hazy viscous 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-4701-100 should be incorporated in the mill base before adding the pigments, with additional shear force to ensure thorough mixing.

Storage

AFCONA-4701-100 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

25kg and 190kg 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.