

AFCONA-4720



Chemical Composition

Modified polyacrylate polymer based on CRP technology.

Product general description

AFCONA-4720 contains an AB block polymer and an anchoring group, representing an advanced 3-block high molecular weight dispersant. This structure allows pigment concentrates based on AFCONA-4720 to achieve better compatibility and wider applications. It is 100% active with low VOC content.

Product properties

AFCONA-4720 is a highly efficient polymeric dispersant that provides excellent stability for inorganic and organic pigments as well as carbon blacks. Its effective steric hindrance effect gives it excellent stabilization performance across all types of pigments, especially providing outstanding jetness for difficult-to-disperse high-color carbon black. Compared with AFCONA-4701, AFCONA-4720 offers stronger pigment wetting capability, particularly for traditionally difficult-to-disperse organic pigments, delivering excellent color development, transparency and color strength.

AFCONA-4720 is recommended for:

- 1) AFCONA-4720 features exceptionally broad resin compatibility and can be used in nearly all known solvent-based resin systems.
- 2) AFCONA-4720 is often recommended for automotive OEM and refinish paints, as well as various high-grade industrial coatings.
- 3) The excellent compatibility of AFCONA-4720 also makes it suitable for preparing universal color concentrates. Color concentrates made with AFCONA-4720 exhibit good compatibility with difficult-to-match systems containing thermoplastic acrylic resins or nitrocellulose.
- 4) Due to its special anchoring end groups, AFCONA-4720 itself has a relatively dark appearance, which does not affect the color of the final coating during actual dispersion.

Note: AFCONA-4720 may become slightly hazy when stored at or below 10° C. That will not influence the quality.

Product Specification

Non-volatile matter	≥96% (150°C, 0.5h)
Density	1.04 - 1.08 g/cm ³ (20°C)
Acid Value	14 - 22 mg KOH/g
Amine Value	24 - 30 mg KOH/g
Flash point	>100°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-4720 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4720 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.