

AFCONA-4597



Chemical Composition

Modified polyacrylate and vinyl copolymer with multifunctional anchoring groups.

Product general description

General dispersing agent for water-based applications with an extreme good water resistance.

Product Properties

AFCONA-4597 has a high molecular weight and can be used in water-based decorative as well as general water-based industrial coatings. It is also very suitable for resin-free pigment concentrates. It prevents negative effects like flocculation and floating, while significantly improving the storage stability.

AFCONA-4597 is recommended for the grinding and dispersion of all types of pigments, including transparent iron oxide yellow. It efficiently disperses and stabilizes pigments through steric hindrance and electrostatic repulsion.

The advantages of pigment pastes dispersed with AFCONA-4597 are as follows:

- Lower paste viscosity
- Better dispersion stability
- High color strength
- Better storage stability

In finished coatings, AFCONA-4597 offers the following advantages:

- Prevention of floating
- High color strength
- High gloss and DOI
- Better storage stability
- Excellent water resistance

Note: To maintain dispersion efficiency, it is recommended to grind the pigment paste without resin.

Product Specification

Non-volatile matter	38 - 42% (120°C, 0.5h)
Solvent	Water
Density	1.02 - 1.06 g/cm ³ (20°C)
Acid value	6 - 13 mg KOH/g
Amine value	10 - 16 mg KOK/g
Gardner color	Max.15
Flash point	>100°C
Appearance	Transparent, brownish 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-4597 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4597 shall be stored in cool, dry and freeze-proof place. Shelf-life is 3 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.