

AFCONA-4599



Chemical Composition

Solution of modified polyacrylate high molecular weight polymer.

Product general description

High molecular weight polymeric dispersant with strong viscosity-reducing properties for water-based industrial coatings.

Product Properties

AFCONA-4599 is a modified acrylate high molecular weight wetting and dispersing agent with a novel structure, offering excellent stabilizing and dispersing performance for inorganic and organic pigments as well as carbon blacks.

Due to its unique structure, AFCONA-4599 exhibits good water solubility while having minimal impact on the water resistance of the final coating film. Additionally, it contains no co-solvent, making it suitable for low VOC water-based coating systems.

AFCONA-4599 offers the following advantages:

- Lower viscosity of pigment concentrate
- High color strength
- Better transparency of the coating film
- Prevention of floating and flooding
- Low impact on water resistance

Product Specification

Non-volatile matter	39 - 43% (120°C, 0.5h)
Solvent	Water
Density	1.02 - 1.06 g/cm ³ (20°C)
Refractive index	1.390 - 1.410 (25°C)
Acid value	4 - 10 mg KOH/g
Amine value	8 - 14 mg KOH/g
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	: 2-5%
Other inorganic pigments	: 5-10%
Organic pigments	: 20-60%
Carbon blacks	: 40-80%

Incorporation

AFCONA-4599 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4599 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.