

AFCONA-4565



Chemical Composition

Modified polyacrylate polymer.

Product general description

High molecular weight dispersant for water-based decorative and industrial paints that prevents pigment flocculation and is unaffected by pH value.

Product Properties

AFCONA-4565 is a polymeric dispersant for stabilizing inorganic and organic pigments in water-based systems. It offers very good stability performance for all types of pigments, through effective steric hindrance and electrostatic repulsion.

AFCONA-4565 offers the following advantages:

- Higher gloss
- Better color strength
- Better flocculation stability
- Anti-flooding behavior

AFCONA-4565 is pH independent and broadly compatible with most water-based decorative coatings and industrial paints. It does not affect the water resistance of the coating. It is completely water-soluble and does not require neutralization. However, neutralization can enhance its viscosity-reducing properties.

When AFCONA-4565 is stored above 60°C, its solubility in water decreases. Therefore, the grinding temperature should be kept below 60°C to ensure its high efficiency. Of course, once the temperature drops, its solubility in water will recover.

AFCONA-4565 is recommended for the production of resin-free color concentrates for waterborne decorative coatings and industrial coatings. It can be combined with AFCONA-6225 for better cost savings without compromising dispersion quality. Please refer to the application section for guide formulations.

Note: AFCONA-4565 may become slightly hazy when stored at or below 5°C, but that does not affect its quality.

Product Specification

Non-volatile matter	38 - 42% (150°C, 0.5h)
Solvent	Water
Density	1.01 - 1.05 g/cm ³ (20°C)
Amine value	10 - 20 mg KOH/g
Gardner color	Max.6
Flash point	> 100°C
Appearance	Clear, yellowish/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-4565 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4565 shall be stored in cool and dry place away from direct sunlight. 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 refer to the product SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.