

AFCONA-4550



Chemical Composition

Modified polyacrylate polymer.

Product general description

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

Product Properties

AFCONA-4550 is a high molecular weight dispersant. It provides excellent stability for inorganic and organic pigments, as well as carbon blacks. Its effective steric hindrance effect provides outstanding stabilizing performance for all types of pigments.

AFCONA-4550 offers the following advantages:

- 1) Higher gloss
- 2) Higher colour strength
- 3) Anti-flocculation
- 4) Prevention of floating and flooding

AFCONA-4550 is pH independent and broadly compatible with most water-based decorative coating systems. 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-4550 is stored at or 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-4550 is recommended for the preparation of resin-free pigment pastes and for use in various water-based industrial paints. 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-4550 may become slightly hazy when stored at or below 5°C, but that does not affect its quality.

Product Specification

Non-volatile matter	48 - 52% (150°C, 0.5h)
Solvent	Water
Density	1.03 - 1.07 g/cm ³ (20°C)
Amine value	20 - 35 mg KOH/g
Gardner color	Max.6
Flash point	>100°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-4550 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4550 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 refer to the product SDS.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.