

AFCONA – 4565



Chemical Composition

Modified polyacrylate polymer.

Product general description

High molecular weight, pH-independent polymeric dispersant for deflocculation of pigments in water-based decorative as well as industrial paints.

Product Properties:

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

This results in:

- better gloss
- colour strength
- flocculation stability
- anti-flooding behavior.

AFCONA-4565 is pH-independent and has a wide compatibility in most commonly used in industrial coatings. AFCONA-4565 does not influence the water resistance. AFCONA-4565 is complete water-soluble and does not necessary has to be neutralized. However, neutralization will improve the viscosity decrease performance.

AFCONA-4565 will lose the water dissolving power above 60°C. Therefore, in order to ensure high efficiency, keep milling temperature below 60°C. However, once the temperature is cooled down, the water dissolving power will come back.

AFCONA-4565 is recommended for manufacturing of resin free pigment concentrates for decorative as well as for industrial paints. It also can be combined with AFCONA –6225 for better cost saving without compromising any dispersion quality. Please refer to the application section for guide formulations.

Note:

- 1, AFCONA – 4565 will become slightly hazy at temperatures below 5° C. This will not influence the quality.
- 2, Color would be a little darker during storage, this will not influence the product quality and performance.

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 |
| Flash point | >100°C |
| Gardner color | Max.6 |
| Appearance | Clear to slightly hazy, yellowish 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 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 3 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

30kg and 200 kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.