

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 water-based decorative and 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 reduction 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: AFCONA – 4565 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

| | |
|--------------------|-------------------------------|
| Active ingredients | 38 – 42% |
| Solvent | Water |
| Density at 20 °C | 1.02 – 1.06 g/cm ³ |
| Amine value | 12– 22 mg KOH/g |
| Colour | max. 12 |

Remark : Color could change during storage but this will not influence the product quality and performance.

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

25 kg and 180 kg non-returnable containers