

AFCONA – 4550



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-4550 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-4550 is pH-independent and has a wide compatibility in most commonly used in industrial coatings. AFCONA-4550 does not influence the water resistance. AFCONA-4550 is complete water-soluble and does not necessary has to be neutralized. However, neutralization will improve the viscosity reduction performance.

AFCONA-4550 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-4550 is recommended for manufacturing of resin free pigment concentrates for industrial paints.

Note: AFCONA – 4550 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

Active ingredients	48 – 52%
Solvent	Water
Density at 20 °C	1.03 – 1.07 g/cm ³
Amine value	35 – 45 mg KOH/g
Colour	max. 6

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 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