

# 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 <sup>3</sup>
Amine value	20 – 35 mg KOH/g
Flash point	>100°C
Color	Max.6
Appearance	Clear, yellowish liquid

## Addition and dosage

Calculation method for the required amount of active ingredient on pigment:

TiO <sub>2</sub>	: 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

25kg and 180 kg non-returnable containers

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This version replaces all previous ones.