

# 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% (150°C,0.5h)
Solvent	Water
Density at 20°C	1.03 – 1.07 g/cm <sup>3</sup> (20°C)
Amine value	20 – 35 mg KOH/g
Flash point	>100°C
Color	Max.6

## 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

30kg and 200kg non-returnable containers

AFCONA ADDITIVES

Web Site : [www.afcona.com](http://www.afcona.com)

This information and all further technical advice are based on our present knowledge and experience. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. We reserve the right to make any changes according to science and technological progress or further developments.

This version replaces all previous ones.