

# AFCONA – 4590



## Chemical Composition

Modified polyacrylate polymer.

## Product general description

High efficient polymeric dispersant for no grinding resin concentrate manufacturing. And it will give best color development of paint.

## Product Properties:

AFCONA-4590 is a high molecular weight wetting and dispersing agent, especially the stabilization to inorganic and carbon black. It has excellent stabilization to all types of pigments, behavior of its steric effect. The performance is close to AFCONA-4570, but much lower cost.

AFCONA-4590 has below advantages:

- Better Gloss;
- Good viscosity decrease;
- Prevent flocculation of pigments;
- Lighten floating problems;
- Improve the color development of pigments.

AFCONA-4590 is a modified polyacrylate highmolecular weight dispersant, it can be applied in water-based and solvent based coating systems, such as aqueous and solvent based decorative paints, aqueous and solvent based general industrial paints. It is best applied to aromatic free long oil alkyds with high solid content.

AFCONA-4590 also can improve the color acceptance of coating systems with aqueous and solvent based concentrates of markets, as well as general water/oil concentrates.

Note:

AFCONA – 4590 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

## Product Specification

Non-volatile matter	40 -43% (150°C,0.5h)
Solvent	Water/TPM
Density	1.02 – 1.06 g/cm <sup>3</sup> (20°C)
Amine value	34 – 50 mg KOH/g
Flash point	>100°C
Gardner Color	Max.8
Appearance	Transparent to slightly hazy, brownish liquid (25°C)

## Addition and dosage

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

TiO <sub>2</sub>	: 2 - 3%
Other inorganic pigments	: 2 - 5%
Organic pigments	: 20 - 40%
Carbon blacks	: 20 - 60%

## Incorporation

AFCONA-4590 should be incorporated in the mill base before adding the pigments.

## Storage

AFCONA-4590 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 plastic containers

AFCONA ADDITIVES

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

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This version replaces all previous ones.