

# AFCONA – 5054



## Chemical Composition

High molecular weight carboxylic acid salts

## Product general description

Wetting and dispersing additive to prevent sedimentation and flooding of pigments

## Product Properties

AFCONA-5054 helps to prevent interfacial tension between the hydrophilic pigments/extenders and the binder, forming a lattice structure with the pigments at the same time. It stabilized pigment through electrical charge repulsion forces.

AFCONA – 5054 has below special properties and recommended in below systems:

- 1) AFCONA – 5054 gives very wide compatibility with almost all resins systems. Compared to AFCONA – 5044, AFCONA – 5054 has more polar groups and a higher molecular weight. Due to these facts AFCONA – 5054 gives better anti-settling effect than AFCONA – 5044.
- 2) Like AFCONA – 5044, AFCONA – 5054 mainly is used in primers and decorative paints. It also widely used in marine and heavy duty paints. AFCONA – 5044 has better wetting properties and AFCONA – 5054 gives better anti-settling and anti-flooding properties.
- 3) AFCONA-5054 is ideal for dispersing organophilic Bentonites, because it reduces dispersion time, improves the storage stability of the final paste and gives a thixotropic, easily processed paste-product.
- 4) AFCONA-5054 is especially suitable for non-polar to medium-polar binder systems, i.e. air-drying alkyd resins, chlorinated polymers, alkyd/amino resin combinations and epoxies.
- 5) AFCONA-5054 can cause discoloration in nitrocellulose varnishes and cause gel in certain UPE resin.

Note: AFCONA – 5054 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

## Product specification

Active ingredients	50 - 54%
Solvent	Alkylbenzene
Density at 20 °C	0.88 - 0.90 g/cm <sup>3</sup>
Amine value	45 -60 mg KOH/g
Acid valu	50 – 60 mg KOH/g
Flashpoint	42°C
Appearance	transparent yellowish to brownish liquid

## Addition and dosage

0.2 - 2.0% based on inorganic pigments  
30.0 - 50.0% based on Bentonites

## Incorporation

When used in mill-bases, add before grinding. In Bentonite dispersions use as follows:

85-87	parts of solvent
10	parts of Bentonite
5- 3	parts of AFCONA-5054
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100 parts	

## Storage

AFCONA-5054 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container

## Packaging

25 kg and 180 kg non-returnable containers.