

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

Non-volatile matter	50 - 54%
Solvent	Alkyd benzene
Density at 20°C	0.88 – 0.90 g /cm ³
Acid Value	45 - 90 mgKOH/g
Amine Value	50 - 60 mgKOH/g
Refractive index	1.410 – 1.420
Flash point	41°C
Gardner color	≤12
Appearance	Transparent, 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

100 parts	

Storage

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

Packaging

25kg and 180 kg non-returnable containers

AFCONA Polymers Co., Ltd.

Web Site : www.afcona.com

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This version replaces all previous ones.