

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 stabilizes 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 is 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	50 - 60 mgKOH/g
Amine Value	45 - 60 mgKOH/g
Flash point	41°C
Gardner color	≤13
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 ADDITIVES

Web Site : 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.