

AFCONA-5254



Chemical Composition

Organic amine salt of polycarboxylic acid high molecular weight polymer.

Product general description

A wetting and dispersing agent that improves pigment wetting ability and stabilizes pigment dispersion systems.

Product properties

AFCONA-5254 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 pigments through electrical charge repulsion forces.

AFCONA-5254 has very good compatibility with almost all resin systems, and it can also impart a slight thixotropy in dispersion to prevent floating, flooding and settling.

AFCONA-5254 is solvent-free. No VOCs issue.

The characteristics and recommended systems for AFCONA-5254 are as follows:

- 1) AFCONA-5254 is mainly used in primers and decorative paints. It is also widely used in marine and heavy-duty paints.
- 2) AFCONA-5254 is ideal for dispersing organically modified bentonites, because it reduces dispersion time, improves the storage stability of the final paste and gives a thixotropic, easily processable paste-product.
- 3) AFCONA-5254 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.
- 4) AFCONA-5254 can cause discoloration in nitrocellulose varnishes and cause gel in certain UPE resins.

Note: AFCONA-5254 may become slightly hazy when stored at or below 5°C. This will not affect its quality.

Product Specification

Non-volatile matter	≥96% (120°C, 0.5h)
Density	0.88 - 0.92 g/cm ³ (20°C)
Acid value	97 - 107 mg KOH/g
Amine value	92 - 102 mg KOH/g
Flash point	>100°C
Appearance	Transparent, brown viscous liquid (25°C)

Addition and dosage

0.2 - 2.0% based on inorganic pigments
10.0 - 30.0% based on Bentonites

Incorporation

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

87 - 89	parts of solvent
10	parts of Bentonite
3 - 1	parts of AFCONA-5254

100 parts	

Storage

AFCONA-5254 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 5 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

25kg and 180kg non-returnable containers

For product safety information: please take reference of SDS.

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.