

AFCONA-4474



Chemical Composition

Vinyl co-polymer contains pigment anchor groups.

Product general description

Wetting and dispersing agent for solvent-based systems.

Product Properties

AFCONA-4474 is a universal pigment dispersant developed based on AFCONA's "Polymeric Surfactant" technology. It exhibits excellent pigment stabilizing properties and very broad compatibility. AFCONA-4474 has high polarity and also offers anti-flooding and anti-settling properties. Its acid-functional pigment-affinity group contains no amine, thus it does not affect storage stability or pot life.

AFCONA-4474 is recommended for:

- 1) Dispersion of inorganic pigments, including TiO₂ and iron oxides, as well as carbon black and organic pigments, in various solvent-borne coatings and ink systems.
- 2) Coil coatings, can coatings and industrial baking paints, particularly suitable for TiO₂ dispersion in oil-free polyester/melamine systems.
- 3) Transparent iron oxide pigment systems, enhancing the transparency of transparent iron oxide pigments.
- 4) Facilitating the acceptance of commercial universal colorants into standard white paints in manufacturing.
- 5) Baking paints based on polyester systems.
- 6) Acid-curing systems.
- 7) Unsaturated polyester and epoxy systems.

Note: AFCONA-4474 may become slightly hazy when stored at or below 5°C, but that does not affect its quality.

Product Specification

Non-volatile matter	50 - 54% (120°C, 0.5h)
Solvent	Butyl acetate/Propylene glycol methyl ether acetate
Density	1.005 - 1.035 g/cm ³ (20°C)
Acid value	7 - 14 mg KOH/g
Gardner color	Max.18
Flash point	45°C
Appearance	Clear brownish/slightly hazy liquid (25°C)

Addition and dosage

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

TiO ₂	: 2-3%
Other inorganic pigments	: 2-4%
Organic pigments	: 20-40%
Carbon blacks	: 20-60%

Incorporation

AFCONA-4474 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4474 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 200kg non-returnable containers

For product safety information: please refer to the product 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.