

AFCONA-3580



Chemical Composition

Organically modified polysiloxane.

Product general description

Silicone-based leveling and anti-crater agent for aqueous coatings.

Product Properties

AFCONA-3580 is an organically modified polysiloxane with very short chain repeating units of siloxane. Due to its small molecule size, it migrates rapidly to surface defects. This gives excellent anti-crater properties without any intercoat adhesion problems.

AFCONA-3580 is also widely used in electroplating and electro-deposition coatings to prevent crater formation, as well as to produce a smooth coating with good leveling and excellent appearance. As it has a non-ionic structure, it can be used in both anionic and cationic systems.

AFCONA-3580 is recommended for use in all kinds of water-based coatings with a pH range of 4-10.

The use of AFCONA-3580 gives the following advantages:

- 1) Excellent anti-crater behavior.
- 2) Better substrate wetting.
- 3) Improved leveling.
- 4) No inter-coat adhesion problems. No re-coating problems.
- 5) Little or no foam stabilization.

Note: Due to the small molecule size of AFCONA-3580, the slip effect is reduced.

Product Specification

Non-volatile matter	≥95% (120°C, 0.5h)
Density	1.09 - 1.13 g/cm ³ (20°C)
Refractive index	1.456 - 1.466 (25°C)
Gardner color	Max.3
Appearance	Transparent to slightly yellowish liquid (25°C)

Addition and dosage

0.1-1.0% on total formulation. Under normal conditions, the dosage is 0.1-0.3% based on total formulation.

Incorporation

AFCONA-3580 should be added either prior to or after processing.

Storage

AFCONA-3580 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 3 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

30kg and 220 kg non-returnable containers.

For product safety information: please refer to the product SDS.