

AFCONA – 3580



Chemical Composition

Organically modified polysiloxane for aqueous systems.

Product general description

Silicone based levelling and anti-crater agent for aqueous coatings without influent of inter-coat adhesion.

Product Properties:

AFCONA-3580 is an organically modified polysiloxane with very short chain repeatable units of siloxane. Due to the small molecules, they move very fast to a defected area. This gives very good anti-crater properties without any intercoat adhesion problems.

AFCONA-3580 is also widely uses in electroplating and electro deposition coating to avoid crater formation as well as giving a smooth, good leveling and good appearance coating. Itself is not an ionic structure, does it can be use in anionic and cationic system.

AFCONA-3580 is recommended to use in all kind 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.
- 5) Little or no foam stabilization.

Note: the slip performance, due to the small molecules, is less.

Product Specification

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

Addition and dosage

0.1 – 1.0% on total formulation. In general, under normal conditions, the dosage is 0.1-0.3% based on total formulation.

Incorporation

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

Storage

AFCONA-3580 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 3 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

30kg and 220 kg non-returnable containers.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.