

AFCONA-3031



Chemical Composition

Polyether-modified polysiloxane.

Product general description

A slip and leveling agent mainly for metal and UV coatings.

Product Properties

AFCONA-3031 is a polyether-modified polysiloxane that provides excellent slip with an oily and wet-look characteristic. This property can visually enhance the perceived film thickness.

AFCONA-3031 is commonly used in metal coatings, such as industrial baking systems, automotive refinish polyurethane clear coats and other vehicle paints.

AFCONA-3031 is also widely used in UV coatings, providing good leveling and slip performance. However, it does not contain any reactive functional group that can cross-link with UV resin system.

Due to its high surface activity, AFCONA-3031 may interfere with intercoat adhesion if recoating is performed without sanding. If air entrapment occurs during application, adding small amounts of defoamers such as AFCONA-2020 or AFCONA-2022 is recommended.

AFCONA-3031 is recommended for:

- 1) Slip and leveling agent for two-component polyurethane coatings, exhibiting low sensitivity to micro foam formation.
- 2) Industrial baking systems with curing temperature below 170°C. Normally, AFCONA-3030 is recommended for those systems, but AFCONA-3031 shall be preferred when higher slip performance is required.
- 3) Slip and leveling agent in UV coatings, offering good compatibility and low foam stabilization in most applications.

Product Specification

Non-volatile matter	50 - 54% (120°C, 0.5h)
Solvent	Alkylbenzene
Density	0.93 - 0.95 g/cm ³ (20°C)
Refractive index	1.464 - 1.474 (25°C)
Flash point	50°C
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-3031 can be incorporated at any stage of process.

Storage

AFCONA-3031 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 180 kg non-returnable containers

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

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.