

AFCONA-3231



Chemical Composition

Polyether-modified polysiloxane.

Product general description

Slip and leveling agent used mainly in metal and UV coatings.

Product properties

AFCONA-3231 is a polyether-modified polysiloxane. It provides good, oily slip characteristic. As a result, it imparts high fullness and a wet look to the paint film.

AFCONA-3231 is used in metallic paints, industrial baking systems, automotive refinishes, polyurethane clear coats and other vehicle paints. It can also be applied to synthetic leather and other applications requiring silicone surface treatment.

AFCONA-3231 is widely used in UV-curable coatings systems, providing good leveling and slip performance, even though it does not contain any reactive groups capable of cross-linking with UV-curable resin systems.

Due to its high surface activity, AFCONA-3231 may affect intercoat adhesion during recoating without sanding. To prevent air entrapment during application, a small amount of defoamer, such as AFCONA-2020 or AFCONA-2022, should be added.

AFCONA-3231 is recommended for :

- 1) Slip and leveling agent in two-component polyurethane coating systems, exhibiting low sensitivity to micro foam in polyurethane coatings.
- 2) Industrial baking systems where baking temperature is below 170°C. In normal case, AFCONA-3030 or AFCONA-3233 is recommended for industrial baking systems. However, if higher slip is needed, AFCONA-3231 will be the better choice.
- 3) Slip and leveling agent in UV-curable coatings, where it generally offers good compatibility and low foam stabilization.
- 4) Primary slip and leveling agent in other solvent-based industrial coatings.

Product Specification

Non-volatile matter	≥96% (120°C, 0.5h)
Density	0.97 - 1.01 g/cm ³ (20°C)
Refractive index	1.435 - 1.445 (25°C)
Flash point	>100°C
Appearance	Clear to slightly hazy, yellowish liquid (25°C)

Addition and dosage

0.05-1.0% on total formulation. Under normal conditions, the dosage is 0.1-0.3% based on total formulation.

Incorporation

AFCONA-3231 can be added at any stage during production process.

Storage

AFCONA-3231 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

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This version replaces all previous ones.