

AFCONA - 3031



Chemical Composition

Organically modified polyether polysiloxane

Product general description

Slip and levelling additive used mainly in metal and UV coatings.

Product Properties

AFCONA-3031 is a polyether modified polysiloxane. It gives very good slip and the slip characteristic is oily type also called as wet look appearance. Therefore, it can enhance visually film thickness AFCONA – 3031 normally used in metal coatings like industrial baking systems, car refinish polyurethane top clear coats and other vehicle paint.

AFCONA – 3031 also widely used in UV coatings due to the good levelling 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 can interfere with intercoat adhesion when recoated without sanding. If air is introduced by the application equipment, the use of small amounts of defoamers such as AFCONA-2020 and AFCONA-2022 are recommended.

AFCONA – 3031 is recommended in below systems:

- 1) 2K Polyurethane. It gives low sensitivity to inner bubble.
- 2) Industrial baking systems where baking temperature is less than 170°C. In normal case, AFCONA – 3030 is recommended for industrial baking systems. However, if higher slip is needed, AFCONA -3031 will be the better choice.
- 3) UV coatings. A lot of time, AFCONA – 3031 is selected for UV due to the less foam stabilizing effect and good compatibility.

Product specification

Active ingredients	50 – 54%
Solvents	Alkylbenzene
Density at 20 °C	0.93 - 0.95 g/cm ³
Refractive index	1.469 - 1.479
Flashpoint	40 °C
Appearance	transparent to slight yellowish liquid

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-3031 can be added at any stage of the manufacturing process.

Storage

AFCONA-3031 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container

Packaging

25 kg and 180 kg non-returnable containers