BYK-UV 3511

Silicone-containing surface additive for radiation-curable overprint varnishes, to improve leveling and substrate wetting.

Product data

Composition
Polyether-modified polydimethylsiloxane

SVHC label-free (EU SDS)

Typical properties
The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C):	1.03 g/ml
Active substance:	100 %
Refractive index (20 °C):	1.435

Storage and transportation
Separation or turbidity may occur at temperatures below 10 °C. Warm to 20 °C before use and stir thoroughly.

Special note
BYK-UV 3511 is a low-cycle version of BYK-UV 3510. The cyclic siloxane content D4/D5/D6 is in each case less than 0.1 %, therefore the SVHC label is not required in the safety data sheet. BYK-UV 3511 can have a hazy and gray appearance. This does not impair the effectiveness of the product.

Applications

Printing inks

Special features and benefits
Due to its high surface activity, BYK-UV 3511 accumulates on the surface of the coating. It is particularly recommended for radiation-curable overprint varnishes in the printing ink sector. It improves the substrate wetting and the leveling at small dosages. Generally speaking, half the dosage of a standard silicone should be sufficient to achieve optimum leveling and substrate wetting. BYK-UV 3511 is particularly suitable for high-speed machines where the decreased tendency to stabilize foam has a positive effect. Its good compatibility with standard binders enables highly transparent coatings to be produced.

Recommended use
BYK-UV 3511 is particularly recommended for all non-aqueous, radiation-curable overprint varnishes.

Recommended levels

0.2–0.6 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process, including post-addition.

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