

BYK-UV 3590

Crosslinking, silicone-containing surface additive for radiation-curing printing inks and overprint varnishes for reducing tape adhesion (improving tape release), increasing surface slip and creating structural effects.

Product data

Composition

Polyether-modified polydimethylsiloxane, alkenoate functional

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):	0.98 g/cm ³
Active substance:	100 %
Refractive index (20 °C):	1.411
Delivery form:	viscous liquid

Storage and transportation

Product shelf life in unopened original packaging: 30 months

To be stored and transported at a temperature below 40 °C. Moisture sensitive. Protect the product from direct sunlight.

Applications

Printing inks

Special features and benefits

BYK-UV 3590 is particularly suitable for UV-curing printing inks and overprint varnishes. The additive accumulates on the surface due to its very high interfacial activity. Due to its acrylic functionality, it can be incorporated into the polymer composite and thus permanently anchored to the surface. There it causes a reduction in adhesive tape adhesion (improvement of tape release properties) and leads to a particularly significant increase in surface slip. In addition, BYK-UV 3590 exhibits very good defoaming properties and has only a slight influence on the turbidity of the system. By using BYK-UV 3590, it is also possible to create structural effects in overprint varnishes and printing inks.

Recommended use

BYK-UV 3590 is particularly recommended for all non-aqueous, radiation-curing flexographic, offset and screen printing inks as well as for radiation-curing overprint varnishes.

Recommended levels

0.1-5 % additive (as supplied) based on the total formulation, in exceptional cases up to 10 %.

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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