

BYK-UV 3505

Crosslinkable surface additive for radiation curable systems for improving substrate wetting, scratch resistance, and easy-to-clean properties.

Product data

Composition

Solution of polyether-modified polysiloxane, alkenoate functional

Typical properties

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

Density (20 °C):	1.06 g/cm ³
Active substance:	40 %
Solvent:	TPGDA
Flash point:	84 °C
Refractive index:	1.456
Delivery form:	liquid

Storage and transportation

Product shelf life in unopened original packaging: 24 months

To be stored and transported between 0 °C and 40 °C. Protect the product from direct sunlight.

Applications

Coatings industry

Special features and benefits

Even at a low dosage BYK-UV 3505 displays a strong reduction in surface tension and improves substrate wetting, even of difficult substrates. Surface slip is significantly increased even at low dosage. This leads, amongst other things, to an improvement in scratch resistance and the easy-to-clean properties. As a result of its multiple acrylic functionality, BYK-UV 3505 crosslinks with radiation curable systems and thereby produces long-lasting effects without migrating. Its recoatability must be tested, surface sanding is recommended. The product is very compatible and causes no haze in the coating system. BYK-UV 3505 is suitable for solvent-free, solvent-borne, and aqueous systems.

Recommended use

Wood and furniture coatings	<input checked="" type="checkbox"/>
General industrial coatings	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended levels

0.1-0.3 % additive (as supplied) based on the total formulation, in exceptional cases up to 1 %.

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.

Special note

The additive is functional and is crosslinked into radiation curable systems.

Printing inks**Special features and benefits**

BYK-UV 3505 improves substrate wetting and the leveling of 100 %, UV-curing overprint varnishes. As a result of the strong reduction in surface tension, this product is primarily extremely well suited to wetting critical substrates and to conventional offset inks. The additive also causes a reduction in the coefficient of friction (COF) and a good tape release effect. The use of BYK-UV 3505 leads to an increase in gloss. The good compatibility with standard binders enables highly transparent overprint varnishes to be produced.

Recommended use

100 % UV overprint varnishes	<input checked="" type="checkbox"/>
Offset printing inks	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended levels

0.3-1.0 % additive (as supplied) based on the 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.



Your local
contact

BYK-Chemie GmbH

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
info@byk.com
www.byk.com



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byk.com/app

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