

## BYK-313

Silicone-containing surface additive for solvent-borne coating systems with a strong reduction in the surface tension. Excellent substrate wetting, prevents cratering and increases surface slip. Particularly suitable for baking systems, thermally stable up to 230 °C. Aromatic-free variant of BYK-310.

### Product data

#### Composition

Solution of a polyester-modified polydimethylsiloxane.

#### Typical properties

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

Density (20 °C):	0.98 g/ml
Non-volatile matter (10 min, 150 °C):	15 %
Solvents:	Methoxypropylacetate
Flash point:	45 °C

#### Storage and transportation

Separation or turbidity may occur at temperatures below 5 °C. Warm to 20 °C and mix well.

#### Special note

BYK-313 is the aromatic-free variant of BYK-310.

**Aromatic-free**  
**SVHC label-free (EU SDS)**

### Applications

#### Coatings industry






##### Special features and benefits

The additive provides a strong reduction in the surface tension of coating systems. It therefore especially improves substrate wetting and prevents cratering. Surface slip and gloss are also increased. BYK-313 also provides very good leveling properties, even with thin layers.

BYK-313 is a thermally stable silicone additive which, in contrast to conventional silicones, shows no thermal decomposition at temperatures between 150 °C and 230 °C. Consequently, when re-coating, no loss in adhesion and no surface defects occur, which can be caused by the decomposition products of conventional silicones above 150 °C. The additive is HAPS- and aromatic-free.

**Recommended use**

The additive is particularly recommended for all solvent-borne coatings.

Can coatings	
Coil coatings	
Industrial coatings	
Automotive OEM coatings	
Wood and furniture coatings	

 especially recommended    recommended

**Recommended levels**

0.05–0.5 % 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.

**Special note**

Unlike so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in test series whether foam is stabilized in certain systems. Similarly, the recoatability, the migration of the silicone in stacked sheets as well as cratering should be checked.

**BYK-Chemie GmbH**

Abelstraße 45  
46483 Wesel  
Germany  
Tel +49 281 670-0  
Fax +49 281 65735

info@byk.com  
www.byk.com

ADD-MAX®, ADD-VANCE®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURABYK®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions.