# BYK-302

Silicone surface additive for solvent-free, solvent-borne, and aqueous coating systems and printing inks with medium reduction of surface tension and medium increase of slip.

## Product data

**Composition**
Polyether-modified polydimethylsiloxane

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

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|---|---|
| Density (20 °C): | 1.04 g/cm³ |
| Non-volatile matter (60 min, 105 °C): | ≥ 95 % |
| Flash point: | > 100 °C |
| Delivery form: | liquid |

**Storage and transportation**
Product shelf life in unopened original packaging: 60 months
To be stored and transported at a temperature below 50 °C.

**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 and check the recoatability and crater development.

## Applications

### Coatings industry

**Special features and benefits**
The additive provides a medium reduction of surface tension in the coating systems. It increases slip and improves leveling and gloss. Silicone additives prevent the formation of Bénard cells. BYK-302 also improves substrate wetting and anti-blocking properties.

### Recommended use
BYK-302 is used when solvent-free additives are required or when special solvents for preparation on site are desired. It can be used in all aqueous, solvent-borne, and solvent-free systems.

| | |
|---|---|
| Automotive OEM coatings | ☐ |
| Automotive refinish coatings | ☐ |
| Can coatings | ☐ |
| General industrial coatings | ☐ |
| Wood and furniture coatings | ☐ |

■ Especially recommended ☐ Recommended

### Recommended levels
0.025-0.2 % 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. Thinning before incorporation may make dosing easier.

## Printing inks

### Special features and benefits
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