

# BYK-SILCLEAN 3725

Silicone-containing, hydroxy-functional, and cross-linking surface additive for permanent, improved cleanability (easy to clean effect) in aqueous coatings.

## Product data

### Composition

Solution of polyether-modified polydimethylsiloxane, hydroxy-functional

PFAS-free

### Typical properties

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

Density (20 °C):	0.97 g/cm <sup>3</sup>
Non-volatile matter (10 min, 150 °C):	25 %
Solvent:	di-propylene glycol monomethyl ether
Flash point:	78 °C
OH value (active substance):	27 mg KOH/g
Delivery form:	liquid

### Storage and transportation

Product shelf life in unopened original packaging: 36 months  
To be stored and transported at a temperature below 50 °C.

## Applications

### Coatings industry

#### Special features and benefits

- Orientation to the coating surface due to the high interfacial activity
- OH-reactive and ideal for aqueous, and also for solvent-based, cross-linking systems to create permanent surface properties such as
  - Hydrophobicity and oleophobicity for highly water- and oil-repellent coating surfaces
  - Reduced dirt adhesion to the coating surface and easier cleaning
  - Improved substrate wetting, leveling, and surface slip of the coatings
  - Higher water resistance (no whitening)
  - Anti-blocking properties

**Recommended use**

General industrial coatings	<input checked="" type="checkbox"/>
Architectural coatings	<input type="checkbox"/>
Automotive OEM coatings	<input type="checkbox"/>
Floor coatings	<input type="checkbox"/>
Marine and protective coatings	<input type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>

especially recommended    recommended

**Recommended levels**

1-6 % 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 should be added towards the end of the production process and incorporated in the coating at a sufficient shear rate.

**Special note**

It is recommended that the additive is initially tested without the addition of other surface additives in the formulation. If the leveling is to be further improved, leveling additives can be added in the second step.

If using the additive in applications where it is cross-linked with the binder, it is important that the coating is evenly and thoroughly sanded before recoating in order to ensure sufficient adhesion.

**Leather finishes and coated fabrics****Special features and benefits**

- Orientation to the coating surface due to the high interfacial activity
- OH-reactive and ideal for aqueous, and also for solvent-based, cross-linking systems to create permanent surface properties such as
  - Hydrophobicity and oleophobicity for highly water- and oil-repellent coating surfaces
  - Reduced dirt adhesion to the coating surface and easier cleaning
  - Improved substrate wetting, leveling, and surface slip of the coatings
  - Higher water resistance (no whitening)
  - Anti-blocking properties

**Recommended use**

Coated fabrics	<input checked="" type="checkbox"/>
Leather coatings	<input checked="" type="checkbox"/>

especially recommended    recommended

**Recommended levels**

1-10 % 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 should be added towards the end of the production process and incorporated in the coating at a sufficient shear rate.

**Special note**

It is recommended that the additive is initially tested without the addition of other surface additives in the formulation. If the leveling is to be further improved, leveling additives can be added in the second step. It is strongly recommended to use cross-linkers that are reactive towards OH groups, such as reactive or blocked isocyanates. When using the additive in applications in which it cross-links with the binder, intercoat adhesion must be evaluated case by case.

At high dosages, gloss decrease may be observed due to incompatibility.



Your local  
contact

**BYK-Chemie GmbH**

Abelstraße 45  
46483 Wesel  
Germany  
Tel +49 281 670-0  
[info@byk.com](mailto:info@byk.com)  
[www.byk.com](http://www.byk.com)



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