

# **BYK-SILCLEAN 3701**

Silicone-containing surface additive for epoxy resin systems to improve cleanability (easy-to-clean effect). Permanent effect as a result of cross-linking in the system.

## **Product Data**

#### Composition

Epoxy-functional polydimethylsiloxane

## **Typical Properties**

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

Active substance: 100 %

Epoxy equivalent weight: 1600 g/equivalent

Density (20 °C): 0.99 g/ml Flash point: > 100 °C

#### **Food Contact Legal Status**

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

## **Storage and Transportation**

To be stored and transported at a temperature below 40 °C.

# **Applications**

## **Coatings Industry**

## **Special Features and Benefits**

BYK-SILCLEAN 3701 has an epoxy functional group and cross-links permanently with the epoxy resin system. This sustainably and extremely effectively increases the hydrophobic and oleophobic properties, which reduces dirt adhesion and simultaneously improves cleanability (easy-to-clean effect).

BYK-SILCLEAN 3701 has no foam-stabilizing properties, which means there is no need to use defoamers. In addition, the additive improves substrate wetting, leveling, surface slip and water resistance (reduction in carbamate formation) of epoxy resin systems. For this reason, we recommend first testing BYK-SILCLEAN 3701 in your formulation without the prior addition of surface additives. If improved leveling is also required, the leveling additives should be added in a second step.

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#### **Recommended Use**

Conventional epoxy systems	
High-solids epoxy systems	
Solvent-free epoxy systems	
2K-PUR	
Aqueous systems	_
especially recommended recommended - not recommended	

#### **Recommended Levels**

0.05 %-2 % additive (as supplied) based upon the total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

#### **Incorporation and Processing Instructions**

The additive can be added at any time during production. Sufficient shear forces must be applied.

#### **Special Note**

When using this additive, it is important that the coating is evenly and thoroughly sanded before any recoating or retouching in order to ensure sufficient adhesion.







**BYK-Chemie GmbH** P.O. Box 10 02 45 46462 Wesel Germany Tel +49 281 670-0 Fax +49 281 65735

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