

# BYK-019

Silicone-containing defoamer for aqueous pigment concentrates for use in coatings, printing inks and overprint varnishes. Prevents foam during grinding. Long-term and shear stability. Particularly suitable for resin-free grinds (slurries).

## Product Data

### Composition

Solution of a polyether-modified polydimethylsiloxane.

### Typical Properties

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

Density (68 °F):	8.15 lbs/US gal
Non-volatile matter (60 min., 221 °F):	60 %
Solvents:	Dipropylene glycol monomethyl ether
Flash point:	172 °F

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

## Applications

### Coatings Industry

#### Special Features and Benefits

BYK-019 is particularly suitable for aqueous coating systems based on polyurethane dispersions and polyurethane/acrylate combinations and for defoaming pigment concentrates. To reduce microfoam, a combination of BYK-019 with BYK-024 in a ratio of 3:2 has proven successful.

#### Recommended Levels

0.1-1 % additive (as supplied) based upon 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

Due to its high incompatibility, the defoamer must be incorporated at high shear forces to ensure a good distribution. Otherwise defects may occur in the system.

**Printing Inks and Overprint Varnishes****Special Features and Benefits**

BYK-019 is particularly suitable for aqueous overprint varnishes based on acrylate dispersions, polyurethane dispersions and polyurethane/acrylate combinations and for defoaming pigment concentrates. To reduce microfoam, a combination of BYK-019 with BYK-024 in a ratio of 3:2 has proven successful in defoaming pigment concentrates.

**Recommended Use**

The additive is particularly recommended for aqueous systems and UV systems.

**Recommended Levels**

0.1-1 % additive (as supplied) based upon 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**

Due to its high incompatibility, the defoamer must be incorporated at high shear forces to ensure a good distribution. Otherwise defects may occur in the system.