

BYK-1709

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 suited to resin-free grinds (slurries).

Product Data

Composition

Solution of a polyether-modified polydimethylsiloxane

SVHC label-free
(EU SDS)

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 (60 min., 105 °C):	60 %
Solvents:	Dipropylene glycol monomethyl ether (DPM)
Flash point:	76 °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.

Special Note

BYK-1709 is a low-cycle version of BYK-019. The cyclic siloxane content D4 / D5 / D6 is in each case less than 0.1 %, therefore the SVHC label is not required in the safety data sheet.

Applications

Coatings Industry

Special Features and Benefits

BYK-1709 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-1709 with BYK-024 in a ratio of 3:2 has proven successful.

Recommended Use

The additive is particularly recommended for aqueous systems and aqueous pigment concentrates.

Recommended Levels

0.1-1 % additive (as supplied) based on 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

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-1709 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-1709 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 on 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

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.



Additive Guide



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