BYK-346

Silicone surfactant for aqueous coatings, printing inks and overprint varnishes with strong reduction in surface tension resulting in significantly improved substrate wetting. No increase in surface slip. Solution of BYK-345.

Product Data

Composition
Solution of a polyether-modified polysiloxane

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

Active substance:	52 %
Density (20 °C):	1.00 g/ml
Non-volatile matter (10 min., 150 °C):	45 %
Solvents:	Dipropylene glycol monomethylether (48 %)
Flash point:	81 °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
Solution of BYK-345. The difference between the amount of active substance and non-volatile matter is due to the synthesis-related excess of low molecular weight polyethers which is determined with our test method as part of the volatile content. The additive requires a small amount of co-solvent in the formulation (approx. 5 % of the total solvent content) in order to avoid turbidity. The effectivity of the silicone surfacant is reduced in systems with higher co-solvent amounts. For these types of formulations we recommend the use of polysiloxanes such as BYK-333.

Applications

Coatings and Printing Inks

Special Features and Benefits
The additive provides a large decrease in surface tension in aqueous systems and therefore improves substrate wetting and leveling in particular. Foam stabilization does not occur or only very minimally and recoatability is not affected. The additive does not increase surface slip. If higher surface slip is desired, we recommend combining it with a polysiloxane such as BYK-333.

BYK-346

Data Sheet
Issue 03/2017

Recommended Use
The additive is recommended for all aqueous coatings, printing inks and overprint varnishes which contain a small proportion of organic co-solvent.

Recommended Levels
0.1-1 % additive (as supplied) based upon total formulation.

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

Incorporation and Processing Instructions
The additive is preferably added to the finished formulation. It can, however, be added at any stage during production.

Additive Guide

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

info@byk.com
www.byk.com

This issue replaces all previous versions – Printed in Germany