

BYK-3764

Solvent-free silicone surface additive for aqueous, solvent-borne and solvent-free coatings and adhesives to increase surface slip and to greatly reduce surface tension. Minor foam stabilization and low dosage.

Product Data

Composition

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): 1.02 g/ml

Refractive index (20 °C): 1.440

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-3764 is a low-cycle version of BYK-378. 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

The additive greatly increases surface slip and thereby also improves the scratch resistance. It causes a moderate to high reduction in surface tension and thereby excellent substrate wetting and a good anti-cratering effect. Fat edges (picture framing) are avoided. In matted systems it ensures a good orientation of the matting agent. BYK-3764 displays a high effectiveness at low dosage and only stabilizes foam very slightly. It is widely compatible with aqueous, solvent-borne and solvent-free systems, can be overcoated easily and does not tend to effloresce.

Recommended Use

Architectural coatings	<input type="checkbox"/>
Automotive coatings	<input checked="" type="checkbox"/>
Can coatings	<input type="checkbox"/>
General industrial coatings	<input checked="" type="checkbox"/>
Leather coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

0.01-0.3 % additive (as supplied) based on the total formulation, in exceptional cases up to 0.5 %.

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 incorporated during any stage of the production process, including post-addition.

Adhesives & Sealants**Special Features and Benefits**

The additive causes a moderate to high reduction in surface tension and thereby excellent substrate wetting. It displays a high effectiveness at low dosage and only stabilizes foam very slightly. BYK-3764 displays no negative impact on adhesion and does not migrate.

Recommended Use

BYK-3764 is used in all common reaction adhesives, for example that are based on polyurethane, epoxy or acrylate.

Recommended Levels

0.01-0.3 % additive (as supplied) based on the total formulation, in exceptional cases up to 0.5 %.

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 incorporated during any stage of the production process, including post-addition.



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

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany