

BYK-3483

100 % silicone surfactant for aqueous systems, especially with low cosolvent content, to improve substrate wetting and achieve a defoaming effect and anti-cratering properties.

Product data

Composition

Polyether-modified dimethylpolysiloxane

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): 1.03 g/ml

Active substance: 100 %

Flash point: > 100 °C

Storage and transportation

To be stored and transported at a temperature below 50 °C.

Applications

Coatings industry

Special features and benefits

BYK-3483 combines various important properties in a single additive. In the first instance, it strongly reduces the static surface tension in the liquid coating, and therefore especially improves the substrate wetting. Additionally, good leveling and a defoaming effect are achieved, particularly in the manufacturing of coatings and during spray application. BYK-3483 is suitable for critical substrates, e.g. plastics or contaminated metal surfaces. The product is effective at a low dosage and can also be post-added at moderate shear rates as an anti-cratering and troubleshooting additive. BYK-3483 shows a good balance between the defoaming effect and very good compatibility in various kinds of aqueous systems. It is particularly suitable for formulations with a very low organic cosolvent content and can also be used in solvent-free UV systems.

Recommended use

General industrial coatings	<input checked="" type="checkbox"/>
Marine and protective coatings	<input type="checkbox"/>
Architectural coatings	<input type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>
Floor coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

0.05–0.5 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be added in the let-down stage or used as a post-additive incorporated with moderate shear rates.

Special note

BYK-3483 is a silicone-containing surface additive. It is therefore recommended to check the intercoat adhesion and recoatability when it is used in multi-layer systems.

Printing inks**Special features and benefits**

The additive provides a strong reduction in the surface tension of the systems. Therefore, it especially improves substrate wetting and prevents cratering. It also increases surface slip.

Recommended use

BYK-3483 is recommended for aqueous printing inks and overprint varnishes.

Recommended levels

0.1–0.5 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process, including post-addition.

Special note

BYK-3483 is a silicone-containing surface additive. It is therefore recommended to check the intercoat adhesion and recoatability in a series of tests before use.

Leather finishes and coated fabrics**Special features and benefits**

BYK-3483 combines various important properties in a single additive. In the first instance, it strongly reduces the static surface tension in the liquid coating, and therefore especially improves the substrate wetting. Additionally, good leveling and a defoaming effect are achieved, particularly in the manufacturing of coatings and during spray application. BYK-3483 is suitable for critical substrates, e.g. PVC films or casting and release papers. The product is effective at a low dosage and can also be post-added at moderate shear rates as an anti-cratering and troubleshooting additive. BYK-3483 requires only a small proportion of organic cosolvents. It shows a good balance between the defoaming effect and very good compatibility in various kinds of aqueous systems.

Recommended use

Coated fabrics	<input checked="" type="checkbox"/>
Leather coatings	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended levels

0.05–0.5 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive can be added in the let-down stage or used as a post-additive incorporated with moderate shear rates.

Special note

BYK-3483 is a silicone-containing surface additive. It is therefore recommended to check the intercoat adhesion and recoatability when it is used in multi-layer systems.

Adhesives and sealants**Special features and benefits**

BYK-3483 combines important properties in a single additive. It provides a significant reduction in the surface tension of aqueous adhesive systems and therefore improves substrate wetting on low-polarity substrates, such as polyethylene, polypropylene, and siliconized separating films, and encourages the spreading of aqueous systems on the substrate. Additionally, a defoaming effect is achieved, particularly in the manufacturing of adhesives and during spray applications. The product can also be post-added at moderate shear rates as an anti-cratering and troubleshooting additive.

Recommended use

The additive is recommended for all aqueous adhesive systems.

Recommended levels

0.05–0.1 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

It is preferable to add the additive to the already completed formulation. However, it can be used at any stage during manufacture.



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Your local
contact

BYK-Chemie GmbH

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0

info@byk.com
www.byk.com

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