

BYK-3762

Silicone-containing surface additive for solvent-free and solvent-borne coating systems, printing inks and adhesive systems, with a strong reduction in the surface tension. Very good substrate wetting, prevents cratering and increases surface slip.

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): 1.03 g/cm³
Active substance: 100 %
Delivery form: liquid

Storage and transportation

Product shelf life in unopened original packaging: 48 months

Special note

BYK-3762 is a low-cycle version of BYK-307. 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

Printing inks

Special features and benefits

The additive provides a strong reduction of surface tension of the system. Thus, it especially improves substrate wetting and prevents cratering. Furthermore, it increases surface slip and gloss. BYK-3762 is a highly effective silicone additive for wetting critical substrates, and due to its being solvent-free, it is preferred in systems in which a solvent-free additive is requested, or where intermediate products require specific solvents.

Recommended use

Recommended for all printing inks and overprint varnishes.

Recommended levels

0.1-1.0 % 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. Dilution prior to incorporation can be helpful for easier dosing.

Special note

Unlike so-called silicone oils, this additive is very user-friendly. Nevertheless, it should be determined in a series of tests whether foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.

Coatings industry**Special features and benefits**

The additive provides a strong reduction of surface tension of the coating system, and is a highly effective silicone additive for wetting critical substrates. It prevents cratering, and increases gloss and surface slip. Because it is supplied in a solvent-free form, it is especially useful in systems in which a solvent-free additive is requested, or where intermediate products require specific solvents.

In industrial wood applications, it demonstrates excellent results in curtain stability (used in casting machines).

Recommended use

The additive is especially recommended for all solvent-borne coatings, and can also be used in aqueous systems.

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

Especially recommended Recommended

Recommended levels

0.01-0.3 % 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. Dilution prior to incorporation can be helpful for easier dosing.

Special note

Unlike so-called silicone oils, this additive is very user-friendly. Nevertheless, it should be determined in a series of tests whether foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.

Adhesives and sealants**Special features and benefits**

BYK-3762 is a highly effective silicone additive, and provides a strong reduction of surface tension. In this way, it improves the wetting of critical substrates.

Recommended use

It is recommended for improving the substrate wetting in adhesive systems based on polyurethanes, epoxides, and acrylates.

Recommended levels

0.01-0.15 % additive (as supplied) based on the total formulation.

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

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



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