

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/ml

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-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 in the surface tension of the systems. It therefore especially improves substrate wetting and prevents cratering. Surface slip and gloss are also increased. BYK-3762 is a highly effective silicone additive for wetting critical substrates, and due to its being solvent-free in the form supplied, it is especially useful in systems in which a solvent-free additive is necessary, 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. 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. Dilution before incorporation can make it easier to dose.

Special Note

Unlike so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in a test series whether the 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 in the surface tension of the coating systems and is a highly effective silicone additive for wetting critical substrates. It prevents cratering, and increases gloss and surface slip. BYK-3762 has a property profile comparable to that of BYK-3761, and due to its being solvent-free, it is especially useful in systems in which a solvent-free additive is necessary, or where intermediate products require specific solvents.

Recommended Use

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

Recommended Levels

0.01-0.15 % 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

The additive can be incorporated during any stage of the production process, including post-addition. Dilution before incorporation can make it easier to dose.

Special Note

Unlike so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in a test series whether the foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.

Adhesives & Sealants

Special Features and Benefits

BYK-3762 is a highly effective silicone additive and provides a strong reduction in surface tension. It thereby improves the wetting of critical substrates.

Recommended Use

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

Recommended Levels

0.01-0.15 % 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

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

Special Note

Unlike so-called silicone oils, this additive is very user-friendly. Nevertheless, the effect on adhesive properties must be tested.



Additive Guide



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