

Leveling Agent**SURFADIOLS 1082**

(Alternative to BYK-333)

SURFADIOLS 1082 is a silicone-containing surface additive for solvent-free, solvent-borne and aqueous coating systems, printing inks and adhesive systems as well as ambient-curing plastic systems. It has excellent leveling effect in waterborne coatings.

Typical properties

Appearance	Colorless to light yellow liquid
Composition	Polyether-modified polydimethylsiloxane
Solid content (120 °C, 2h)	97%
Cloud point (25 °C, 1%)	35-42 °C
Viscosity (mpa.s)	300-1000
Density (20 °C), g/cm ³	1.01-1.05
Surface tension (25 °C)	21.0-24.0 mN/m

Special properties

- Strong reduction of surface tension
- Improves the anti-blocking properties in aqueous systems
- Good compatibility
- Improves substrate wetting and avoids cratering
- Good recoatability
- Increases surface slip and gloss

Scope of application

The additive is suitable for all solvent-borne, solvent-free and aqueous coatings, printing inks and overprint varnishes.

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

It can also be used for improving the substrate wetting of ambient-curing polyurethane and epoxy based systems.

Incorporation and Processing Instructions

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

Recommended Levels

0.05-0.3% additive (as supplied) based upon total formulation. In aqueous and UV systems up to 1%.

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

Package and storage

The standard package is 25kg plastic/iron drums, 18 drums per pallet.

Keep containers tightly closed in a dry, cool, and well-ventilated place. Separation or turbidity may occur at temperatures below 5 °C. Warm to 20 °C and mix well. When stored in an original unopened packaging, the product has a shelf life of 12 months from the date of manufacture.