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TECHNICAL DATA SHEET

**Silsurf® B1112**  
Silicone Polyether Copolymer

**DESCRIPTION**

**Silsurf® B1112** is a silicone glycol copolymer. It is used to form stable oil-in-water or silicone-in-water emulsions. It is also used as wetting agent and to provide hydrophilicity. **Silsurf B1112** has an INCI name of PEG-12 Dimethicone.

**TYPICAL PROPERTIES**

Appearance	Clear to hazy Light yellow liquid
Viscosity, cps	650
Flash Point, °C	>100
Active Content %	100
Water solubility, 1%	Dispersible

**APPLICATION & USES**

**Silsurf B1112** is used to prepare stable oil-in-water and silicone-in-water emulsions and to enhance wetting in various personal care and industrial formulations. **Silsurf B1112** also provides softness and shine to hair and detangling for wet hair. It provides hydrophilicity and improved heat stability.

**Silsurf B1112** can be formulated into water-borne and solvent-borne coating systems and is compatible with most of the resins used in the coatings industry including acrylic, alkyd, polyurethane, polyester and epoxy resins. In these formulations it provides wetting, slip, release and foam control as well as slip and mar and stain resistance.

Some possible industrial uses for **Silsurf B1112**:

- Leather finishing: Softness.
- Pulp & Paper: Weak active in defoamers, knockdown enhancer, penetration agent.
- Textile: low to non-foaming wetting, softener, slip, lubrication, penetration aid.
- Automotive & household products: slip, anti-squeak, lubrication, foam control.
- Coatings: slip agent and flow agent with good foaming control properties.
- Plastics: extrusion enhancer

Typical usage levels are between 0.05% - 5.00% wt based on total formulation.

**SHELF LIFE**

When stored in the original, unopened containers between 10 and 40°C, **SiltechB1112** has a shelf life of 36 months from date of manufacture.

**PACKAGING**

**Silsurf B1112** is supplied in 20kg pails and 200kg drums.

**LEGAL DISCLAIMER**

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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