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TECHNICAL DATA SHEET

Silsurf® B608

Silicone Glycol Copolymer

DESCRIPTION

Silsurf® B608 is a silicone glycol copolymer. It is self-emulsifying in water and is designed to be emulsifier or wetting agent in various personal care and industrial chemical formulations. **Silsurf® B608** has an INCI name of PEG-8 Dimethicone.

TYPICAL PROPERTIES

Appearance	Light yellow liquid
Viscosity, cps	200
Active Content %	100
Water solubility, 1%	Dispersible

APPLICATION & USES

Silsurf® B608 is used to prepare stable oil-in-water or silicone-in-water emulsions and to enhance wetting in various personal care and industrial formulations. It can be used as the primary emulsifier in some cases, but is often used as the secondary emulsifier to further stabilize an emulsion. **Silsurf B608** provides softness and shine to hair and detangling for wet hair. In these uses, it also provides hydrophilicity and improved heat stability.

Silsurf B608 is used as a surface wetting agent or surface tension reducing agent in aqueous solution. The material is very surface active, lowering the surface tension of a solution to the low 20 mN/m range. Interfacial tensions are also lowered. Wetting and flow and leveling of the solution are improved.

In aqueous solutions, **Silsurf B608** can act as a weak defoamer, a non-foamer or a weak profoamer depending on concentration, temperature and other components in the solution. In general, it is considered a non-foaming surfactant.

Silsurf B608 is compatible in solvent-borne and UV cured coating systems, and with most of the resins used in the coatings industry including acrylic, alkyd, polyurethane, polyester and epoxy resins. In these systems, **Silsurf B608** provides wetting, flow and leveling, penetration, slip, release, and soft feel as well as mar, stain and abrasion resistance.

Silsurf B608 is effective at very low levels and shows excellent compatibilities in most solvents. It is recommended that it be used between 0.05 -2.0 wt % percent based on the total formulation. It can typically be added at any stage during the production process.

Some possible industrial uses for **Silsurf B608**:

- Leather finishing: wetting, softness.
- Pulp & Paper: Weak active in defoamers, knockdown enhancer, formulation stabilizer, penetration agent.
- Textile: low to non-foaming wetting, slip, lubrication, penetration aid.
- Automotive & household products: wetting, shine, slip, anti-squeak, lubrication, foam control, penetrant.
- Coatings: flow & leveling agent with good slip, low to non-foaming, compatibilizer

Some possible personal care uses for **Silsurf® B608**:

- Silicone in water emulsifier
- Water in oil secondary emulsifier
- Conditioning for skin or hair
- Shine/gloss enhancement

SHELF LIFE

When stored in the original, unopened containers between 10 and 40⁰C, **Silsurf® B608** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silsurf B608 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 liabilities for incidental or consequential damages, which may result from the use of the product that is 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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