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TECHNICAL DATA SHEET

**Siltech® CA Plus**

Branched Silicone Resin

**DESCRIPTION**

**Siltech® CA Plus** is a Q resin modified silane that acts as a hydrophobizing and dispersing agent in a variety of personal care applications.

The INCI name is Dimethiconol/Caprylylsilsesquioxane/Silicate Crosspolymer.

**TYPICAL PROPERTIES**

Appearance	Clear to light yellow liquid
Flash Point (Closed Cup)	>100°C
Specific Gravity, 25°C	0.99
Volatile Organic Content	1.60%
Molecular Weight	Approx. 1600 Da
Viscosity (25°C, cps)	80
Water solubility	Insoluble

**USES AND APPLICATION**

**Siltech CA Plus** improves the dispersion of hydrophobic and untreated pigments and powders in personal care products. It also imparts a soft, lightweight sensorial on the skin.

**Siltech CA Plus** is ideal for use in color cosmetics. The product is super hydrophobic, which lends well to extended wear applications. The addition of Q resin to the base branched silicone resin imparts additional transfer-resistance. **Siltech CA Plus** effectively disperses pigments and improves stay-in-place properties by imparting hydrophobicity and repelling water. The product is more compatible with common personal care formulation ingredients than most silanes.

**Siltech CA Plus** is ideal for use in sun care formulations, wherein it solubilizes and disperses organic and mineral UV filters. Lab studies indicate **Siltech CA Plus** is very effective at dispersing ZnO. SPF testing conducted on formulations with **Siltech CA Plus** reveal an increase in SPF values, likely attributable to improved dispersion of the UV filter.

**Siltech CA Plus** is recommended for use at levels of 3.0-10.0% by weight.

**SAFETY**

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information.

THIS MATERIAL IS NOT FOR MEDICAL OR DRUG USE.

**STORAGE AND SHELF LIFE**

When stored in the original, unopened containers between 15 and 40°C, **Siltech CA Plus** has a shelf life of 24 months from date of manufacture.

**PACKAGING**

**Siltech CA Plus** is available in 175 kg containers.

**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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