

# SilDerm<sup>®</sup> SQ

Improved Texture + Dispersion Aid + Light Diffusion

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**Tomorrow's Vision... *Today!*<sup>®</sup>**

# SilDerm<sup>®</sup> SQ

## Technical Information:



**Code:** 30311

**INCI Nomenclature:** Polymethylsilsesquioxane

**INCI Status:** Approved

**Suggested Use Level:** 1.0 - 5.0%

**Suggested Application:** Improved Texture, Dispersion Aid, Light Diffusion

# Conditions Skin + Improves Texture

## Current Market Trends:



- Make-up with staying power occupies a significant place in the cosmetics market
- Consumers' perception:
  - long-wear make-up = dehydrated, cakey-looking skin
- The holy grail for long-wear cosmetics is to achieve:
  - Increased duration of make-up wear time
  - Maintain a healthy feel and look on the skin

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## Science:



- Chemical formula  $[\text{CH}_3\text{SiO}_{3/2}]_n[\text{CH}_3\text{Si}(\text{OH})\text{O}_{3/2}]_m$
- Modification of traditional Polymethylsilsesquioxane (PMSQ)
  - Classified as a ladder-type polymer, PMSQ is insoluble and highly resistant to heat
- Silsesquioxane is a silicone structure where the ratio of silicone to oxygen is 1:1.5 as opposed to the 1:1 ratio seen in siloxanes
- Forms a three dimensional network connected by siloxane bonds
- The surface of the molecule is populated with mixed Methyl and Hydroxyl groups
  - By varying the ratio of these groups, the surface activity of the **SilDerm<sup>®</sup> SQ** can be modified

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## Production:



- Traditional production methods call for the hydrolysis and condensation of methyltrialkoxysilane
  - Produces methanol and a draggy product due to contamination with dimethoxysilane
- Our more modern production methods are not limited by precursor contamination nor alcohol production

# A Multitude of Applications

## Emulsion Systems:

**SilDerm® SQ** will partition at the interface helping stabilize the emulsion

## Pigmented Products:

**SilDerm® SQ** will diffuse light, deliver a matte finish, preserve translucency, improve dispersability, and increase spreadability



**SilDerm® SQ** is an ideal additive for improving product stability or overcoming the aesthetic limitations of existing formulas

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## Benefits:

- ✓ Light Diffuser
- ✓ Mattening
- ✓ Emulsion Stabilizer
- ✓ Improved Dispersion



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## THANK YOU

Please visit and register to use our new website at

[www.activeconceptsllc.com](http://www.activeconceptsllc.com)

When you register, you will have access to the complete product documentation available.