

SilDerm[®] SQ

Improved Texture + Dispersion Aid + Light Diffusion



Tomorrow's Vision... *Today!*[®]

SilDerm[®] 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

SilDerm® SQ

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® SQ** can be modified

SilDerm[®] SQ

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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ACTIVE CONCEPTS LLC



THANK YOU

Please visit and register to use our new website at

www.activeconceptsllc.com

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