

SilDerm® Formulating Base



Increased ease of formulation
 Promote silky, smooth texture
 Excellent addition
 Enhanced, younger, softer

BACKGROUND

Of our most basic senses, touch is primal, tactile, and discernible. Little to no interpretation is required to understand the perception of touch. Although useful, this skill allows us to easily determine and become hyper-aware of when our skin is feeling healthy, nourished, and supple or conversely, dry, cracked, and sore.

New research suggests that our sense of touch is so developed that humans are able to differentiate perceptions in touch at measures as small as 13nm. To put this in perspective, that means if the earth was the size of a marble we could differentiate between the feel of individual houses and cars! At a much higher level our sense of touch allows us to decipher the immediate feel and perceived benefit of a product, whether it feels silky and luxurious, or tacky and purposeful.

Touch alone is the first and most difficult benchmark for a product to be taken into consumer consideration. Form and function go hand in hand, but you cannot have one without the other, and if a customer does not like how your product feels they won't give it the time of day to see what it does. Making emulsions can be difficult, but not anymore. Utilizing **SilDerm® Formulating Base** will help to yield elegant cosmetic formulations.

SCIENCE

SilDerm® Formulating Base is an excellent addition to nearly any cosmetic formulations as it can create a feeling of perceived luxury, and elegance. It is capable of enhancing the feel of a product while also instantly making the skin feel smoother, softer, and younger. The combination of ingredients that work synergistically to create this product produce a silky texture that is easy and comfortable to apply. Enhanced with Ammonium Polyacryloyldimethyl Taurate, the product helps absorb sebum or oil, giving the skin a matte appearance while increasing the potential to retain moisture. Serving as a

Code Number: 30304

INCI Name: Cyclopentasiloxane & Dimethicone & Cyclohexasiloxane & Isohexadecane & Ammonium Polyacryloyldimethyl Taurate & Tocopheryl Acetate & Polysorbate 20 & Polysorbate 80

INCI Status: Approved

REACH Status: Complies

CAS Number: 541-02-6 & 9006-65-9 & 540-97-6 & 4390-04-9 & 62152-14-1 & 58-95-7 & 9005-64-5 7 & 9005-65-6

EINECS Number: 208-764-9 & N/A & 208-762-8 & 224-506-8 & N/A & 200-405-4 & N/A & 500-019-9

Origin: Synthetic

Processing:

- GMO Free
- No Ethoxylation
- No Irradiation
- No Sulphonation

Additives:

- Preservatives: None
- Antioxidants: None
- Other additives: None

Solvents Used: N/A

Appearance: Paste/Gel

Soluble/ Miscible: Insoluble in Water
87.90% Biodegradability

Microbial Count: <100 CFU/g
No Pathogens

Suggested Use Levels: 3.0-30.0%

Suggested Applications:

- Low Emulsifier Systems, Pigment Spacer

Benefits of **SilDerm® Formulating Base**

- Enhances Luxury of formulations
- Can help create silky, smooth cosmetics
- Promotes soft skin

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potent antioxidant, Vitamin E makes this product ideal for anti-aging applications. Coupled with the light diffusing properties, **SilDerm® Formulating Base** can also help minimize the appearance of fine lines, wrinkles and pores, further enhancing a desirable youthful aesthetic.

BENEFITS

SilDerm® Formulating Base is compatible with anhydrous ingredients such as oils and waxes. It can even help reduce the heavy, greasy feel that these ingredients often create in a finished product, while enhancing lubricity. **SilDerm® Formulating Base** is an excellent base useful for designing a variety of decorative and functional formulations, including primers and liquid foundations.

As an absorption base, formulators can easily transform **SilDerm® Formulating Base** into a luxurious cream or lotion simply by adding water and actives. Unlike other ingredients, such as waxes and lipids, **SilDerm® Formulating Base** does not exhibit temperature sensitive changes in viscosity. This low odor formulation is perfect for fragrance-free applications as well.

References

- 1) G, Li. et al. 2001. Journal of Inorganic and Organometallic Polymers. Polyhedral Oligomeric Silsesquioxane (POSS) Polymers and Copolymers: A Review. 11(3): 123-154
- 2) Y, Xue. et al. 2007. Journal of Zhejiang University. Synthesis and characterization of nanocompound octavinyl polyhedral oligomeric silsesquioxane. (7)4



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