

SilDerm® Conditioning



Silk and Mallow
key to luxurious feeling
cosmetics
Cushioning, Hydrating
film former + moisturizer
with the ability
to improve any formulation

BACKGROUND

While leave on make-up preparations occupy a significant place in the current market there is one critical consumer perception inhibiting any major mass market growth. Leave on make-up preparations make the skin feel dry, and can lead to cracked, unhealthy skin.

It is possible to overcome the physical sensation of dryness with a variety of formulating techniques, but this does little to overcome the preconception in the consumer's mind. In order to do so, formula based solutions must be combined with accessible skincare ingredients. **SilDerm® Conditioning** was designed to meet and excel within this category of needs.

SCIENCE

A silicone-based polymer matrix is saturated with extracts of Lily, Comfrey, Yerba Santa, and Mallow. The polymer is then wrapped in a protective cocoon of silk. Finally, the polymer is dispersed in Cyclopentasiloxane, creating a gel structure that adds a unique textural element and also helps overcome any problems or shortcomings associated with the polymers absorption characteristics. Lily has traditionally been used medicinally as an anti-inflammatory agent, however in this application it is intended to infuse the skin with moisture.

BENEFITS

Comfrey is well recognized for its ability to soothe the skin. Yerba Santa introduces a luxurious emollient feel, while the Mallow provides skin softening activity. This combination of materials can be released from the polymer-gel matrix calming and hydrating the skin. The overall effect is to provide a material that overcomes not only the physical sensation of drying but actually leaves the skin feeling healthy, soft and smooth.

Code Number: 30341

INCI Name: Cyclopentasiloxane & Dimethicone/Silsesquioxane Copolymer & Silk & Malva Sylvestris (Mallow) Extract & Lilium Candidum Bulb Extract & Lactobacillus/ Eriodictyon Californicum Ferment Extract & Cymbidium Grandiflorum (Orchid) Flower Extract

INCI Status: Approved

REACH Status: Complies

CAS Number: 541-02-6 & 68554-67-6 & 9009-99-8 & 84082-57-5 & 84776-67-0 & 68990-14-7 & 999999-99-4

EINCS Number: 208-764-9 & N/A & N/A & 282-003-9 & 283-996-1 & 273-580-8 & 310-127-6

Origin: Synthetic & Botanical

Processing:

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

Additives:

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

Solvents Used: N/A

Appearance: Hazy Gel

Soluble/ Miscible: Insoluble
100% Biodegradability

Microbial Count: <100 opg,
No Pathogens

Suggested Use Levels: 1.0 - 5.0%

Suggested Applications:
Improved Texture, Conditioning

Benefits of SilDerm® Conditioning

- Natural Film-Former
- Add Luxury to any Formulation
- Improve Texture, Slip, and Feel
- Simple to Formulate with

SilDerm Conditioning

EFFICACY DATA

As seen in Figure 1, **SilDerm® Conditioning** has been evaluated for a number of tactile qualities in order to best understand the types of strengths it has, and formulations it would be best suited for. The overall feel in a finished good, as well as a raw material, make **SilDerm® Conditioning** very flexible in formulation. In addition, it is visually simplistic and elegant to formulate with. Along with these benefits, **SilDerm® Conditioning** also offers tremendous film forming properties, cushion, and has the capacity to drastically improve the overall softness of the skin.

SilDerm® Conditioning Evaluation

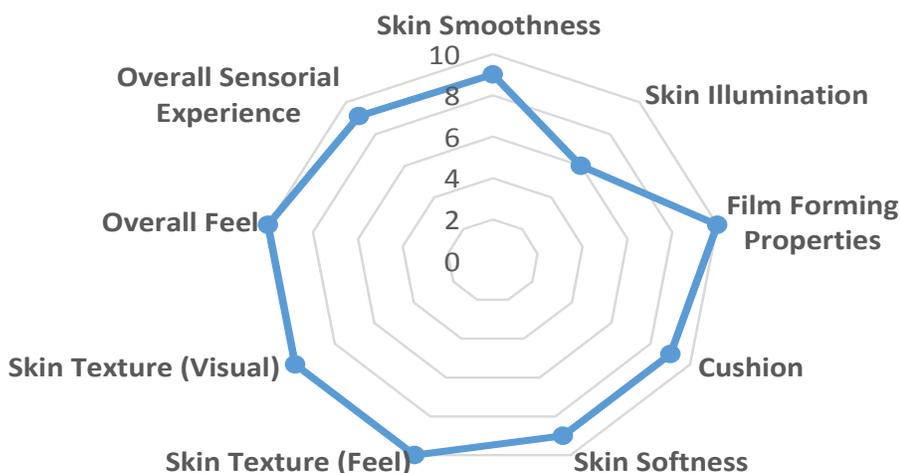


Figure 1. Overall product evaluation

References

- 1) O, Suiythimeathegorn. et al. 2005. International Journal of Pharmaceutics. Novel anhydrous emulsions: Formulations as controlled release vehicles. 298(2): 367-371
- 2) P, Boonme. et al. 2007. Journal of Cosmetic Dermatology. Applications of microemulsions in cosmetics. 6(4): 223-228.