



PERFORMANCE INSPIRED INGENUITY

Siltech Corporation
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Double Up

Sunscreen Foundation

Description:

Double Up is a foundation that doubles as a makeup and sunscreen, made possible with benefits imparted by multiple Siltech ingredients. **Silube® PCH2** is a premium emulsifier that excels at pigment dispersion. **Siltech® CE-2000** is a versatile citrate ester that imparts both cushion and emolliency. **Silwax® J1032** is an alkylated silicone wax that assists in compatibilizing oils, has been demonstrated to improve SPF values and improves spreadability on the skin. **Siltech® CA Plus** improves dispersion of actives and imparts a lightweight, soft sensorial on the skin. It is super-hydrophobic and ideal for repelling water in makeup.

Ingredients:

Phase	Ingredients	INCI name	Wt. %
A	D.I. Water	Water	32.87
	Zemea (DuPont)	Propanediol	5.00
	NaCl	Sodium Chloride	1.30
B	Siltech CE-2000 (Siltech)	Trioctyldodecyl Citrate	7.00
	Jarcane-12 (Jarchem)	Dodecane	6.00
	Escalol 557 (Ashland)	Ethylhexyl Methoxycinnamate	7.50
	Tinosorb S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	7.50
	Fancol Shea Butter (Elementis)	Butyrospermum Parkii Butter	1.00
	Crodacol C95 (Croda)	Cetyl Alcohol	1.00
	Solaveil HTP1 (Croda)	TiO2 (and) Alumina (and) Stearic Acid	5.50
	Unipure Yellow LC182 AS-EM (Sensient)	CI 77492 (and) Triethoxycaprylylsilane	0.69
	Unipure Red LC381 AS-EM (Sensient)	CI 77491 (and) Triethoxycaprylylsilane	0.21
	Unipure Black LC989 AS-EM (Sensient)	CI 77499 (and) Triethoxycaprylylsilane	0.02
C	Dry-Flo Elite BN (Nouryon)	Aluminum Starch Octenylsuccinate, Boron Nitride	1.48
	Siltech CA Plus (Siltech)	Dimethiconol/Caprylylsilsesquioxane/Silicate Crosspolymer	9.00
	Silwax A02 (Siltech)	Ethyl Trisiloxane	5.43
	Silwax J1032 (Siltech)	C32 Alkyl Dimethicone	2.00
	Silube PCH2 (Siltech)	Polyglyceryl-4 Isostearate (and) PEG/PPG-10/1 Dimethicone (and) Hexyl Laurate	6.00
D	Symocide PS (Symrise)	Phenoxyethanol (and) Decylene Glycol (and)1,2-Hexanediol	0.50
Total			100.00



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Procedure:

- 1) Combine oils with pigments and powders in Phase B, heat up to 80°C and blend well.
- 2) Combine silicones in Phase C, heat up to 80°C, mix well.
- 3) Cool both phases to 50°C. Add Phase B (oils) to Phase C (silicones) while mixing.
- 4) Combine ingredients in water phase (Phase A) and mix well. Add Phase A slowly into oil/Si mixture.
- 5) Add preservative (Phase D) under mixing and mix well.

Product formulations are included as illustrative examples. Siltech Corporation makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

2/27/24