



PERFORMANCE INSPIRED INGENUITY

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## **Shielding Velour**

### Sunscreen

**Description:**

Shielding Velour sunscreen is a high-performing 50+ SPF formulation that benefits from the combination of physical and chemical sunscreen actives as well as several Siltech specialty ingredients. Silube® PCH is a versatile emulsifier that displays superior UV active dispersion and invert emulsion stabilization. Silwax® D02 is an alkyl dimethicone that provides enhanced spreadability. Silmer® Q25 is a silicone Q resin that promotes film formation and stay-in-place properties. Silmer® G-162-F5 is a silicone elastomer gel dispersed in Dimethicone that provides a premium sensorial, enhanced spreadability and a long playtime on the skin. Siltech® CE-2000, a citrate ester, imparts exceptional emolliency and cushion during application. Consumers will definitely enjoy the silky feel as they impart ultimate protection to their skin!

**Ingredients:**

Phase	Ingredient (Supplier)	INCI Name	Weight (%)
A	D.I. Water	Water	30.00
	Glycerin	Glycerin	5.00
	NaCl	Sodium Chloride	1.00
B1	<b>Silube PCH (Siltech)</b>	Polyglyceryl-4 Isostearate, Cetyl PEG/PPG-10/1 Dimethicone, Hexyl Laurate	6.50
	<b>Silwax D02 (Siltech)</b>	Ethyl Methicone	1.00
	<b>Silmer Q25 (Siltech)</b>	Trimethylsiloxysilicate	3.00
	<b>Silwax J1032 (Siltech)</b>	C32 Alkyl Dimethicone	2.00
	<b>Silmer G-162-F5 (Siltech)</b>	Dimethicone Dimethicone/Vinyl Dimethicone Crosspolymer	4.00
	Magnesium Stearate	Magnesium Stearate	1.00
	<b>Siltech AP7-061 EXP (Siltech)</b>	Triethoxyoctylsilane	5.00
B2	<b>Siltech CE-2000 (Siltech)</b>	Trioctyl dodecyl Citrate	5.00
	Tinasorb S (BASF)	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	5.00
	Neo Heliopan 357 (Symrise)	Butyl Methoxydibenzoylmethane	3.00
	Neo Heliopan AV (Symrise)	Ethylhexyl Methoxycinnamate	7.50
	ZinClear IM 50CCT (Antaria)	Zinc Oxide (and) Coco-Caprylate/Caprate (and) Polyglyceryl-3 Polyricinoleate (and) Isostearic Acid	13.50
C	DIM2F650T4 (KOBO)	TiO <sub>2</sub> , Dimethicone, Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone, Amunia, Hydrogen Dimethicone	7.50
D	Symocide (Symrise)	Phenoxyethanol, Decylene Glycol, 1,2-Hexanediol	q.s.
<b>Total</b>			<b>100.00</b>



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Procedure:

- 1) Combine liquids in Phase B1 and disperse Magnesium Stearate until homogenous. Add elastomer, mix well, then heat to 85°C.
- 2) Combine Phase B2 (except ZnO); heat up to 85°C and mix well. Disperse ZnO until uniform.
- 3) Add Phase B2 into Phase B1 at 80°C slowly under moderate mixing rate.
- 4) Homogenize batch until it is uniform and then cool to room temp.
- 5) Combine ingredients in Phase A, mix well. Add Phase A to Phase B slowly under moderate mixing.
- 6) Add Phase C and Phase D one by one under moderate mixing rate.

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.