



PERFORMANCE INSPIRED INGENUITY

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Combined Coverage

Sunscreen Cream Featuring Mineral & Organic UV Filters

Description:

Combined Coverage is a 30+ SPF formulation featuring premium aesthetics and performance courtesy of multiple Siltech offerings. Siltech® CE-2000 is a versatile citrate ester that effectively disperses inorganic UV filters, resulting in an SPF boost, and imparts emolliency. Lab studies suggest a more than 20% increase in in-vitro SPF values when substituting Siltech® CE-2000 in place of Alkyl Benzoate! Silube® PCH provides superior UV active dispersion and invert emulsion stabilization. The ultra-low viscosity Silwax® A08-UP provides a lubricious skin feel, that ends with a velvety finish. Enjoy the benefits and protection afforded from the combination of both mineral and organic sunscreen actives!

Ingredients:

Phase	Description (supplier)	INCI Name	Weight %
A	D.I. Water	Aqua	49.5
	Zemea propanediol (Dupont)	Propanediol	5.0
	Sodium Chloride	Sodium Chloride	1.0
	Silube PCH (Siltech)	Polyglyceryl-4 Isostearate (and) Cetyl PEG/PPG-10/1 Dimethicone (and) Hexyl Laurate	6.0
	Silwax A08-UP (Siltech)	Caprylyl Methicone	4.0
	Siltech CE-2000 (Siltech)	Trioctyldodecyl Citrate	8.0
	Tinasorb M (BASF)	Methylene Bis-Benzotriazolyl Tetramethylbutylpheno (nano)	1.0
B	Paracera W80 (Paramelt)	Crystalline Wax	1.5
	Escalor 517 (Ashland)	Butyl Methoxydibenzoylmethane	1.0
	DIM 2F650T4 (KOBO)	TiO ₂ , Dimethicone, Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone, Alumina, Hydrogen Dimethicone	12.0
	ZinClear XP 65 Coco (Antaria)	Zinc Oxide, Coco-caprylate/caprate, Polyglyceryl-3 Polyricinoleate, Isoteric Acid	10.0
C	Zeastat (Inolex)	Caprylhydroxamic Acid (and) Propanediol	1.0
Total			100.0

Procedure:

- 1) Combine Phase A and mix well. Heat up to 80°C.
- 2) Combine all ingredients in Phase B, mix well and then heat up to 85°C. Continue mixing for a minimum of 10 minutes.
- 3) Add Phase A into Phase B slowly under moderate mixing rate. After addition, high shear at 3000 rpm for 2 minutes.
- 4) Cool batch down to Room Temp and keep mixing. Add Phase C while mixing.

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.