



PERFORMANCE INSPIRED INGENUITY

Siltech Corporation
225 Wicksteed Avenue
Toronto, Ontario M4H 1G5

www.siltech.com

Sales@siltech.com
+1 416.424.4567

Repel Times Two Sunscreen

Description:

Repel Times Two is a 30+ in-vitro SPF sunscreen that repels both water, ensuring longer-lasting protection, and harmful UV rays. **Siltech® CE-2000**, an organic mineral dispersant, combined with the emulsifier **Silube® Sustain-S**, provide excellent synergistic mineral dispersing effects and easily incorporate the featured ZnO. Zinc oxide is featured as a sunscreen active, helping to ensure reef-safety. **Silmer® UR-5050** forms a flexible, hydrophobic film, ideal for imparting flexible stay-in-place properties in and out of the water. **Silwax® A08-UP** provides a lubricious skin feel, that ends with a velvety finish. **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. Repel Times Two ensures that users benefit from water-repellent properties, allowing this sunscreen to repel harmful UV rays for extended periods of time, all while enjoying a premium sensorial! In-vitro SPF: 43; Critical Wavelength: 373nm.

Ingredients:

Phase	Description (supplier)	INCI Name	Wt . (%)
A	D.I. Water	Water	35.5
	Zemea (DuPont)	Propanediol	5.0
	Sodium Chloride	Sodium Chloride	1.0
B1	Silube Sustain-S (Siltech)	Gluconamido Lauryl Dimethicone (and) Isoamyl Laurate	6.5
	Lameform TGI (BASF)	Polyglyceryl-3-Diisostearate	1.5
	Silmer G-162-F5 (Siltech)	Dimethiconol (and) Dimethicone/Vinyl Dimethicone Crosspolymer	3.0
	Siltech CE-2000 (Siltech)	Trioctyldodecyl Citrate	5.0
	ZinClear XP 65Coco (Antaria)	Zinc Oxide, Coco-caprylate/Caprates, Polyglyceryl-3 Polyricinoleate, Isostearic Acid	15.0
B2	DIM2F650T4 (KOBO)	TiO ₂ (and) Dimethicone (and) Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone (and) Alumina (and) Hydrogen Dimethicone	15.0
	Silwax A08-UP (Siltech)	Caprylyl Methicone	4.0
	Silwax D222 (Siltech)	Behenyl Dimethicone	3.5
	Silmer UR-5050 (Siltech)	Bis-Hydroxypropyl Dimethicone/SDMI Copolymer	5.0
C	Zeostat (Inolex)	Caprylhydroxamic Acid (and) Propanediol	q.s.
Total			100.00

Procedure:

- 1) Combine ingredients in Phase A and mix well.
- 2) Combine ingredients in Phase B1 and disperse elastomer gel under moderate mixing rate for 10 min.
- 3) Combine ingredients in Phase B2 and heat up to 80°C. Mix well, then cool to RT.
- 4) Add Phase B1 into Phase B2 slowly under moderate mixing rate.
- 5) After addition, high shear 3000rpm for 2 minutes. 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.

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