

Color Guard SPF Foundation

Formula KLF-022D

Est. SPF 15

Part	Percent	Ingredients	INCI Name	Supplier
1	14.29	KOBOGUARD® 5400 IDD	Hydrogenated Polycyclopentadiene (And) Isododecane	Kobo Products
	5.71	Soltrol 130	C10-13 Isoparaffin	Chevron-Phillips
	0.25	Covi-ox® T-70	Tocopherol	Cognis Corp.
2	2.00	LUCENTITE SAN-P	Quaternium-18 Hectorite	Kobo Products
	1.00	Ethyl Alcohol 39C (95%)	SD Alcohol-39C	Warner-Graham
3	10.00	BTD-TTB2	Titanium Dioxide (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone	Kobo Products
	10.00	PM9P50M170	Titanium Dioxide (And) Isododecane (And) Alumina (And) Methicone (And) Polyhydroxystearic Acid	Kobo Products
	6.80	SF1540	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	Momentive/Kobo Products
	4.42	Soltrol 130	C10-13 Isoparaffin	Chevron-Phillips
	3.50	TOSPEARL 2000B	Polymethylsilsesquioxane	Momentive/Kobo Products
	2.83	Permethyl® 99A	Isododecane	Presperse
	0.75	KTZ® INTERFINE GOLD	Mica (And) Titanium Dioxide	Kobo Products
	0.75	SP-10L	Nylon-12	Toray/Kobo Products
	0.75	KTZ® INTERFINE RED	Titanium Dioxide (And) Mica	Kobo Products
	0.51	BGYO-TTB2	Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone	Kobo Products
	0.50	GMS-11S2	Mica (And) Triethoxycaprylsilane	Kobo Products
	0.25	Covi-ox® T-70	Tocopherol	Cognis Corp.
	0.21	BGRO-TTB2	Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone	Kobo Products
0.06	BGBO-TTB2	Iron Oxides (C.I. 77499) (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone (And) Isopropyl Titanium Triisostearate	Kobo Products	
4	0.75	Crill 6	Sorbitan Isostearate	Croda
	0.75	Arlacel 80	Sorbitan Oleate	Croda
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
5	17.00	Deionized Water	Water	
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	0.10	Methyl Paraben NF	Methylparaben	International Sourcing
6	1.65	Syncrowax HGL-C	C18-36 Triglycerides	Croda
	1.10	Syncrowax BB-4	Synthetic Beeswax	Croda
	0.25	dl-alpha Tocopherol	dl-alpha Tocopherol	Roche
7	10.00	VELVESIL 125	Cyclopentasiloxane (And) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer	Momentive/Kobo Products
8	0.10	Phenoxyethanol	Phenoxyethanol	Clariant
	0.02	Vanillin FCC	Vanillin	Citrus & Allied Essence
9	2.00	Deionized Water	Water	
	0.35	dl-panthenol	Panthenol	Roche
	0.25	Germall® 115	Imidazolidinyl Urea	ISP

Kobo Products - formulations

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Manufacturing Procedure

- *Use explosion-proof mixers and equipment during batching process*
1. Add Part 1 raw materials to a beaker under a fume hood.
 2. Mix until homogenous at room temperature until dissolved.
 3. Add the Lucentite SAN-P to Part 1 and disperse for 20 minutes. Add the Alcohol and continue dispersing for a minimum of 30 minutes or until gelled.
 4. Combine and add pre-dispersed Part 3 to gel mixture and homogenize for 15 minutes. Add Part 4 raw materials.
 5. Combine the Water and Sodium Chloride. Add the Methylparaben.
 6. Add the aqueous Part 5 very slowly to the external phase.
 7. Heat batch to 77-80°C. Add waxes (Part 6) at 75-80°C. Begin cooling the batch to 60°C.
 8. At 60°C add Part 7.
 9. Add Germall® 115 solution to the batch at 42°C and continue mixing and cooling to 25°C. Fill into appropriate containers.

Description

This long wear foundation combines Kobo's Titanium Dioxide Dispersion, PM9P50M170, with Koboguard® 5400 IDD, a long wear resin, to achieve an Estimated SPF 15. Lucentite SAN-P and Velvessil 125 create a smooth-feeling gel when combined with a high level of Microspheres, SP-10L and Tospearl 2000B. The Crosspolymer-Treated Pigments are complemented by a complex of iridescent KTZ® Pearls to provide just a slight shimmer to the sunscreen foundation. SF1540 emulsifier provides an excellent W/O emulsion.

Notes

Active Ingredient(s)	
Titanium Dioxide	14.00%

Formulations

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The Powder & Dispersion Specialist

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