



KLF-340

High Coverage Mineral Only SPF Foundation Using BCC-CSO-NJE4

%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
15.00	HBP50T7	Butyloctyl Salicylate (And) Titanium Dioxide (And) Alumina (And) Hydrogen Dimethicone (And) Polyhydroxystearic Acid	Kobo Products
10.00	BCC-CSO-NJE4	Calcium Starch Octenylsuccinate (And) Calcium Carbonate (And) Jojoba Esters	Kobo Products
7.00	WE70U	Titanium Dioxide (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	Kobo Products
6.00	DIM2FH75MZCM	Zinc Oxide (And) Dimethicone (And) Isononyl Isononanoate (And) Polyglyceryl-6 Polyricinoleate (And) PEG-10 Dimethicone (And) Hydrogen Dimethicone	Kobo Products
4.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
4.00	KF 6038	Lauryl Peg-9 Polydimethylsiloxyethyl Dimethicone	Shin-Etsu
4.00	KOBOGUARD® MQ60DM	Trimethylsiloxyisilicate (And) Dimethicone	Kobo Products
3.20	WE55Y	Zinc Oxide (And) Dimethicone (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	Kobo Products
2.00	KSG-320	Peg-15 Lauryl Dimethicone Crosspolymer (and) Isododecane	Shin-Etsu
0.80	Garamite 7308 XR	Quaternium-90 Sepiolite (And) Quaternium-90 Montmorillonite	Eckart/BYK
0.65	WE70R	Iron Oxides (CI 77492) (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	Kobo Products
0.35	WE70B	Iron Oxides (CI 77499) (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	Kobo Products
Part 2			
25.60	Deionized Water	Water	
4.00	Butylene Glycol	Butylene Glycol	Univar
1.50	Mg Sulfate Hept	Magnesium Sulphate Heptahydrate	Fisher Scientific
0.60	SymDiol® 68	1,2-Hexanediol (And) Caprylyl Glycol	Schulke
0.50	Sensiva PA 40	Phenylpropanol (And) Propanediol (And) Caprylyl Glycol (And) Tocopherol	Schulke
Part 3			
1.00	MSS-500W	Silica	Kobo Products
0.80	GWC-051H	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	GuideWin/Kobo Products
91.00			

Description:

This silky, non-sticky, high-coverage foundation is formulated to give high broad spectrum UV protection with only mineral filters. The formula contains HBP50T7, a light, pourable, ultra high efficiency dispersion of 15 nm PPS TiO₂ and DIM2FH75MZCM, a highly concentrated but pourable dispersion of 265 nm PPS Zinc Oxide. DIM2FH75MZCM is chosen for its silky skin feel and compatibility with the external phase of this w/si foundation. In this formula, it fulfills a double function as UV filter and opacifier. The level of pigmentary grade TiO₂ used can be reduced to less than half of what would normally be required, resulting in a cost efficient way of creating a high-coverage, mineral-only foundation. BCC-CSO-NJE4 is a talc replacement which improves skin adhesion and contributes to the elegant creamy texture. The formula also contains KOBOGUARD® MQ60DM for improved wear and homogeneous deposition of sunscreens on the skin, SunBoost ATB for UV protection boosting and skin protection benefits, and WE dispersions of TiO₂ and Iron Oxides for ease of production and stability. Finally MSS-500W and GWC-051H are added for soft focus and mattifying effects.

Manufacturing Procedure:

1. Prepare Part 1 by adding the ingredients in sequence, use a homogenizer with approximately 2000rpm
2. Prepare part 2
3. Make the emulsion by adding Part 2 to Part 1 (continuing to use homogenizer). Start at 2000 rpm, gradually increase to 5000 rpm
4. Add Part 3 and mix until homogeneous. Use 3000-4000 rpm
5. Pour into component



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FORMULATIONS

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