



KLF-307-EU

# High Coverage Mineral Only SPF Foundation



%	INGREDIENT	INCI NAME	SUPPLIER
<b>Part 1</b>			
16.00	<b>DIM2FH75MZCM</b>	Zinc Oxide (And) Dimethicone (And) Isononyl Isononanoate (And) Polyglyceryl-6 Polyricinoleate (And) PEG-10 Dimethicone (And) Hydrogen Dimethicone	<b>Kobo Products</b>
15.00	<b>HBP50T7</b>	Butyloctyl Salicylate (And) Titanium Dioxide (And) Alumina (And) Hydrogen Dimethicone (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
9.00	<b>BRB DM 55</b>	Dimethicone	<b>BRB International BV</b>
7.00	<b>WE70U</b>	Titanium Dioxide (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
4.00	<b>SunBoost ATB</b>	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	<b>Kobo Products</b>
4.00	<b>KF 6038</b>	Lauryl Peg-9 Polydimethylsiloxylethyl Dimethicone	<b>Shin-Etsu</b>
4.00	<b>KOBOGUARD® MQ60DM</b>	Trimethylsiloxysilicate (And) Dimethicone	<b>Kobo Products</b>
3.20	<b>WE55Y</b>	Iron Oxides (CI 77492) (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
2.00	<b>KSG-320</b>	Peg-15 Lauryl Dimethicone Crosspolymer (and) Isododecane	<b>Shin-Etsu</b>
0.80	<b>Garamite 7308 XR</b>	Quaternium-90 Sepiolite (And) Quaternium-90 Montmorillonite	<b>Eckart/BYK</b>
0.65	<b>WE70R</b>	Iron Oxides (CI 77491) (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
0.35	<b>WE70B</b>	Iron Oxides (CI 77499) (And) Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
<b>Part 2</b>			
25.60	<b>Deionized Water</b>	Water	
4.00	<b>Butylene Glycol</b>	Butylene Glycol	<b>Univar</b>
1.50	<b>Mg Sulfate Hept</b>	Magnesium Sulphate Heptahydrate	<b>Fisher Scientific</b>
0.60	<b>SymDiol® 68</b>	1,2-Hexanediol (And) Caprylyl Glycol	<b>Schulke</b>
0.50	<b>Sensiva PA 40</b>	Phenylpropanol (And) Propanediol (And) Caprylyl Glycol (And) Tocopherol	<b>Schulke</b>
<b>Part 3</b>			
1.00	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>
0.80	<b>GWC-051H</b>	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	<b>GuideWin/Kobo Products</b>
<b>100.00</b>			

## Description:

This silky, non-sticky, high-coverage foundation is formulated to give very 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. DIM2H75MZCM 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. Thanks to this ingredient, 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. 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, mix under propeller mixer. □
2. Prepare Part B
3. Make the emulsion by adding Part 2 to Part 1 under prop stirrer. Start at 800 rpm, gradually increase to 1000 rpm. □
4. Add Part 3 and mix until homogeneous without creating a vortex.

## Active Inredient(s):

Titanium Dioxide	5.85%
Zinc Oxide	11.68%

## Testing:

SPF: in vivo on 8 subjects  
 UVA-PF: in vitro method  
 CW: FDA method



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