

# UV Balance Foundation

## Formula KLF-042C

**in vivo SPF 15  
PFA 5  
in vitro UVA  
(see data below)**

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	12.00	<b>SF1528</b>	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	<b>Momentive/Kobo Products</b>
	2.50	Lexol® PG-865	Propylene Glycol Dicaprylate/Dicaprate	Inolex Chemical Company
	2.50	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	2.50	<b>SS4230</b>	Cyclopentasiloxane (And) Trimethylsiloxysilicate	<b>Momentive/Kobo Products</b>
	2.00	<b>LUCENTITE SAN-P</b>	Quaternium-18 Hectorite	<b>Kobo Products</b>
	0.75	<b>SF1555</b>	Bis-Phenylpropyl Dimethicone	<b>Momentive/Kobo Products</b>
<b>2</b>	1.00	Ethyl Alcohol E1028	Ethyl Alcohol	VWR Scientific Products
<b>3</b>	17.50	<b>UV BALANCE FAS60UVP100</b>	Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Alumina (And) Hydrogen Dimethicone	<b>Kobo Products</b>
	7.03	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	4.00	<b>FAS50EYSI</b>	Iron Oxides (C.I. 77492) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	2.00	<b>FAS70USI</b>	Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	0.80	<b>FAS55ERSI</b>	Iron Oxides (C.I. 77491) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	0.27	<b>FAS60EBSI</b>	Iron Oxides (C.I. 77499) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
<b>4</b>	37.50	Deionized Water	Water	
	3.50	Butylene Glycol	Butylene Glycol	Ruger Chemical Co., Inc.
	1.25	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	0.90	Sodium Chloride	Sodium Chloride	Morton Salt
	0.50	Jeecide CAP-5	Phenoxyethanol (And) Caprylyl Glycol (And) Potassium Sorbate (And) Water (And) Hexylene Glycol	Jeen International
	0.50	Tween™ 20	Polysorbate 20	Croda
		100		

### Manufacturing Procedure

1. Homogenize all ingredients of Part 1 until fully dispersed. Homogenize at least 20 minutes at 3000 RPM.
2. Add Part 2 to dispersed Part 1 at room temperature. Homogenize for 15 minutes.
3. Add Part 3 to dispersed Parts 1 and 2 at room temperature and homogenize until dispersed.
4. Add Part 4 ingredients together in separate tank and slowly add to Parts 1, 2 and 3 with homogenization.

### Description

This UV Balance, sheer foundation has excellent slip and playtime. UV Balance FAS60UVP100, Kobo's Titanium Dioxide Dispersion, helps provide a 3:1 ratio of SPF to PFA. The FAS Dispersions of Iron Oxides give color consistency and ease of manufacturing. SF1528 is an excellent W/O emulsifier and SS4230 helps give wear. SF1202 gives playtime during application while SF1555 helps with feel in application.

### Notes

Active Ingredient(s)	9.27%
Titanium Dioxide	

SPF testing: in vivo on 3 subjects  
 UVA Testing: UVA Ratio = 0.89  
 Critical Wavelength = 386nm  
 Transpore Tape Method-Labsphere

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## Formulations

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# The Powder & Dispersion Specialist

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