

Moisturizing Silicone-In-Water Foundation LMU

Formula KLF-040A

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	5.63	SS4230	Cyclopentasiloxane (And) Trimethylsiloxysilicate	Momentive/Kobo Products
	3.75	SILSOFT ETS	Ethyl Trisiloxane	Momentive/Kobo Products
	1.88	SF1202	Cyclopentasiloxane	Momentive/Kobo Products
	1.88	Stearic Acid Vegetable	Stearic Acid	Cognis Corp.
	1.25	Glyceryl Stearate Veg.	Glyceryl Stearate	Cognis Corp.
	1.13	Glucate SS Methyl Glucoside Derivative	Methyl Glucose Sesquistearate	Noveon, Inc.
	0.75	Amphisol K	Potassium Cetyl Phosphate	DSM Nutritional Products
	0.38	Cetyl Alcohol	Cetyl Alcohol	Croda
	0.20	Covi-ox® T-70	Tocopherol	Cognis Corp.
	2	8.00	GLW75PFAP-MP	Titanium Dioxide (And) Water (And) Glycerin (And) Ammonium Polyacrylate
2.25		Deionized Water	Water	
2.25		Butylene Glycol	Butylene Glycol	Tri-K Industries
1.69		Silky Talc FK-300S	Talc	Yamaguchi/Kobo Products
1.33		GLW45GYAP	Iron Oxides (C.I. 77492) (And) Water (And) Glycerin (And) Ammonium Polyacrylate	Kobo Products
0.53		GLW55GRAP	Iron Oxides (C.I. 77491) (And) Water (And) Glycerin (And) Ammonium Polyacrylate	Kobo Products
0.35		Kaolin 2747	Kaolin	Whittaker, Clark & Daniels, Inc.
0.17		GLW60GBAP	Iron Oxides (C.I. 77499) (And) Water (And) Glycerin (And) Ammonium Polyacrylate	Kobo Products
3	25.52	Deionized Water	Water	
	4.50	Vegetable Glycerin	Glycerin	Procter & Gamble
	0.75	Triethanolamine	Triethanolamine	BASF
	0.35	General 122 N E-25	PEG-25 Soya Sterol	Cognis Corp.
	0.26	Glucamate SSE-20	PEG-20 Methyl Glucose Sesquistearate	Noveon
	0.05	Methyl Paraben NF	Methylparaben	International Sourcing
	0.05	Trisodium EDTA	Trisodium EDTA	Protameen
4	2.25	Butylene Glycol	Butylene Glycol	Tri-K Industries
	0.35	Keltrol F	Xanthan Gum	CP Kelco
5	3.50	Natrosol 250L NF (10% Solution)	Hydroxyethylcellulose	Hercules-Aqualon
6	3.25	Mackanate DC-30	Disodium PEG-12 Dimethicone And Sulfosuccinate	McIntyre Group, Ltd.
7	25.00	WBG40M40	Water (And) Titanium Dioxide (And) Butylene Glycol (And) Silica (And) Glycerin (And) Ammonium Polyacrylate	Kobo Products
8	0.75	Phenonip® XB	Phenoxyethanol (And) Methylparaben (And) Ethylparaben (And) Propylparaben	Clariant

100

Manufacturing Procedure

- *Use explosion-proof mixers and equipment during batching process*
- Combine Part 1 ingredients and stir while heating to 80°C in a steam bath. Keep beaker covered with a lid.
 - Homogenize Part 2 for 20-30 minutes until a good dispersion is achieved.
 - Heat the aqueous Part 3 to 45°C with stirring in a steam bath.
 - Add Part 4 to the aqueous part and stir 10-15 minutes, followed by Part 5 Hydroxyethylcellulose solution.
 - Add the pigment slurry, Part 2, to the aqueous part and stir while heating to 60°C.
 - Add the Mackanate DC-30 Part 6 to the aqueous part with stirring.
 - Stir Part 7 with spatula. Add this to the aqueous part with stirring.
 - Heat the aqueous mixture to 80°C.
 - Add the oil part slowly to the water part.
 - Stir or homogenize the emulsion for 10-15 minutes. Allow any foam to dissipate. Add Part 8 to the emulsion at 65-70°C with stirring. Continue homogenization.
 - Stir while air cooling to 55°C. QS water loss.
 - Continue stirring and cooling the batch to 25-30°C. Fill.

Description

This liquid foundation features Kobo's GLW dispersions for excellent color consistency and ease of use. Momentive/Kobo's Silicones facilitate the application to the skin while Silky Talc FK-300S provides excellent slip. Kobo's aqueous Titanium Dioxide Dispersion, WBG40M40, provides protection from the sun's UV rays and gives the foundation SPF. Moisturizers (Glycerin and Butylene Glycol) keep the skin hydrated all day. SS4230 gives excellent wear and Silsoft ETS and SF1202 give excellent application and playtime.

Notes

Active Ingredient(s)	
Titanium Dioxide	13.00%

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Formulations

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The Powder & Dispersion Specialist

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