Liquid Foundation WO-LFB

A watery rubbing feel foundation with smooth spreadibility by using GP-1 and EB-21

		(wt%)	
A	Dimethicone *1	7.00	Emollient
	Dimethicone *2	5.00	Emollient
	Cetyl Ethylhexanoate *3	5.00	Emollient
	ELDEW PS-203	1.00	Emollient
	Glyceryl Stearate *4	1.00	Emulsifier
	Glyceryl Stearate SE *5	1.30	Emulsifier
	Sorbitan Palmitate *6	0.70	Emulsifier
B	**AMIHOPE** LL	2.00	Texture Modifier
	TITANIUM DIOXIDE, ALUMINUM HYDROXIDE, DIMETHICONE *7	7.50	Pigment
	IRON OXIDE, DIMETHICONE(Red) *8	1.00	Pigment
	IRON OXIDE, DIMETHICONE (Yellow) *9	1.00	Pigment
	IRON OXIDE, DIMETHICONE(Black) *10	0.10	Pigment
	Silica *11	0.10	Texture Modifier
C	GP-1	0.24	Gelling Agent
	EB-21	0.16	Gelling Agent
	Butylene Glycol *12	7.60	Solvent
D	Water	48.80	
	Glycerin *13	5.00	Moisturizer
E	Acrylates/C10-30 Alkyl Acrylate Crosspolymer *14 (1 wt% Aquous Solution)	5.00	Viscosifier
F	Arginine (10 wt% Aquous Solution)	0.5	pH Modifier
G	Fragrance	q.s.	
		100.0	

1 Mix part A at 80°C.
2 Add part B to part A and mix for 10 min with a disperser (700 to 1000 rpm) at 80°C.
3 Dissolve part C at 80°C. Add part C to part A+B and mix uniformly at 80°C
4 Heat part D at 80°C. While mixing part A+B+C with a paddle mixer (300 rpm) at 80°C, add one-third of part D (80°C) gradually over 1-2 min and mix well until viscosity develops. Gradually add the rest of part D (80°C) over 5 min and mix the final mixture further for 5 min.
5 Add part E (80°C) to the emulsion and further mix with a paddle mixer (400 rpm) for 5 min.
6 Remove the heat source from the paddle mixer and continue mixing till the mixture becomes soft.
7 Set the mixture to a homomixer and mix (3000 to 6000 rpm) at room temperature (r.t.).
8 Add part F, G while stirring the emulsion with a paddle mixture (200 rpm) and cooling down to r.t.

* 1	KF-96A-6cs	Shin-Etsu-Chemical	* 8	SA-RPS-10	Miyoshi Kasei
* 2	KF-96A-10cs	Shin-Etsu-Chemical	* 9	SA-YP-10	Miyoshi Kasei
* 3	CEH	Kokyu Alcohol Kogyo	* 10	SA-BP-10	Miyoshi Kasei
* 4	NIKKOL MGS-BV2	Nikkol Group	* 11	SUNSPHERE H-51	AGC Si-Tech
* 5	NIKKOL MGS-F50SEV	Nikkol Group	* 12	13BGUK	Daicel
* 6	NIKKOL SP-10V	Nikkol Group	* 13	Glycerin	Sakamoto Yakuhin
* 7	SA-TR-10	Miyoshi Kasei	* 14	Carbopol ETD2020	Lubrizol

Stability : Stable for 1 month at -5 °C, 25 °C, 40°C and -5 to 40 °C Cycle
Glass or PP container is recommended for stability.
Viscosity : 4.7 Pa.s (B-type viscometer, Rotor No.4, 12 rpm, 30 s., 25 °C)