

SOLID EMULSION FOUNDATION <Solid> TR-F-1

A solid foundation with **ELDEW™ PS-203**, **PRODEW™ 600** and **AMIHOPE™ LL**, shows good emulsification, pigment dispersion properties and a smooth melty feel

	Trade name	INCI Name	wt %	Function
A	DOWSIL 246 Fluid *1	Cyclopentasiloxane	22.0	Emollient
	KF-96A-10Cs *2	Dimethicone	6.0	Emollient
	Candelilla Wax *3	Candelilla Wax	6.0	Emulsion stabilizer, Solidifying agent
	Palsol MCX *4	Ethylhexyl Methoxycinnamate	3.0	UV absorber
	EMALEX RWIS-310 *5	PEG-10 Hydrogenated Castor Oil Triisostearate	2.0	Emulsifier
	KF-6017 *2	PEG-10 Dimethicone	3.0	Emulsifier
	DOWSIL SH 556 Fluid *1	Phenyl Trimethicone	2.0	Compatibility agent
	CERESIN#810 *6	Ceresin	1.0	Solidifying agent
	Benton Gel ISD-V *7	Isododecane Distearidimonium Hectorite Propylene Carbonate	3.0	Emulsion stabilizer, Gelling agent
	ELDEW™ PS-203	Phytosteryl/Octyldodecyl Lauroyl Glutamate	2.0	Emollient
B	SA-CR-50 *8	Titanium Dioxide, Aluminium Hydroxide, Dimethicone	8.0	Coloring (White)
	SUNSPERA NP-30 *9	Silica	1.0	Sensory improver
	SUNSPERA NP-200 *9	Silica	1.0	Sensory improver
	KMP-590 *2	Polymethylsilsesquioxane	1.0	Sensory improver
	AMIHOPE™ LL	Lauroyl Lysine	1.0	Sensory improver
	SYMPHOLITE RO *10	Iron oxide, Silica, Dimethicone	0.2	Coloring (Red)
	SYMPHOLITE YO *10	Iron oxide, Silica, Dimethicone	1.2	Coloring (Yellow)
SYMPHOLITE BO *10	Iron oxide, Silica, Dimethicone	0.1	Coloring (Black)	
C	DPG-RF *11	Dipropylene Glycol	4.0	Moisturizer
	Concentrated glycerin for cosmetics *12	Glycerin	0.5	Moisturizer
	Marinecrystal *13	D-Mannitol	0.5	Moisturizer
	L-lysine hydrochloride *14	Lysine HCl	0.1	Moisturizer
	PRODEW™ 600		1.0	Moisturizer
	PRESEVATIVE		q.s.	
	Water		Balance	
Total			100.0	

*1 DOW, *2 Shin-Etsu Silicone, *3 Miki chemical, *4 DCM, *5 Nihon Emulsion, *6 NIKKO RICA
*7 Elementis, *8 MIYOSHI, *9 AGC Si-Tech, *10 JGC Catalysts and Chemicals, *11 ADEKA
*12 KAO chemical, *13 Mitsubishi Corporation Food Tech, *14* Junsei Chemical

<PROCEDURE>

- Heat and stir part A at 90 °C until the wax melts and becomes uniform.
- Add part B and disperse the powder with a homo-mixer (2200 rpm, 2 min) at 90°C.
- Add slowly part C (warmed at 80°C immediately before) little by little and emulsify with a homo-mixer (2800 rpm, 5 min) at 90°C.
- Defoam quickly (room temperature) so that it does not harden.
- Redissolve until the temperature inside the solution reaches 80°C (measured with a digital thermometer) at 90°C.
- It is quickly filled in a container, hardened by quick freezing (-20 °C, 5 min), and then returned to room temperature to resulting in the final formulation.

<PHYSICAL PROPERTIES and STABILITY>

Appearance: Solid (No bubbles),

Recommended container: Airtight container (Flat jar container, foundation container, etc.),

Stability -5°C, 25°C, 40°C, 50°C, Cycle(-5~40°C), 1 Month

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