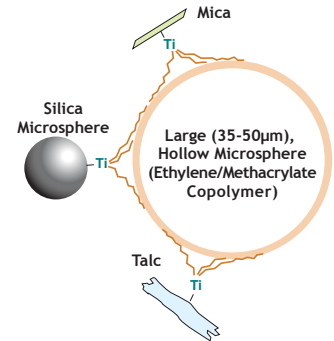
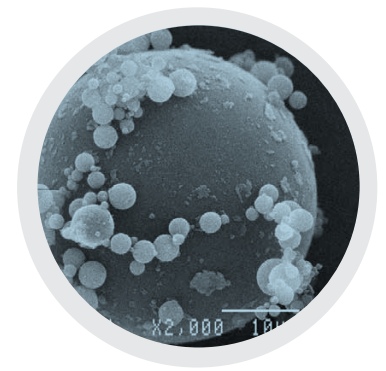


Surface Treated Microspheres & Complexes

USA Program

Microsphere Complexes: Kobo's patented technology covalently bonds Isopropyl Titanium Triisostearate to various substrates such as Platelets, Spheres and Pigments. The resulting complex offers the **best balance of properties possible**, including:

- lightweight, powdery afterfeel
- soft focus effect
- high oil absorption
- pearlescent effect



Patent #US 5356617 Pigment-material-microsphere complexes and their production

Trade Name	INCI Name	Size (µm)	Oil Abs (g/100g)	Bulk Density (g/in3)
DSPCS-I2		23	280	1.0
DSPCS/20N-I2		45	550	0.7
DSPCS/3H-I2	<i>Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	30	375	0.7
DSPCS/3N-I2		45	470	0.6
DSPCS/H-I2		28	800	0.4
DSPCS/N-I2		43	350	0.8
SPCAT-I2	<i>Talc (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	26	193	1.0
SPCM-I2	<i>Mica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	29	185	1.4
New SPCBN30-I2	<i>Boron Nitride (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	45	290	0.5
SPC/BLACK NF-I2	<i>Iron Oxides (CI 77499) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	25	224	0.9
SPC/MST-547-I2	<i>Polymethylsilsesquioxane (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	23	255	0.4
SPC/KTZ CLASSIC WHITE-I2	<i>Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	25	268	1.2
SPC/KTZ FINE WHITE-I2	<i>Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	17	260	1.1
SPC/KTZ INTERVAL BLUE-I2		25	260	1.4
SPC/KTZ INTERVAL GOLD-I2	<i>Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	25	232	1.2
SPC/KTZ INTERVAL GREEN-I2		25	243	1.3
SPC/KTZ INTERVAL RED-I2		26	205	1.3
SPC/KTZ BRONZE DOR-I2		29	282	1.1
SPC/KTZ COPPER-I2	<i>Mica (And) Iron Oxides (CI 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	31	214	1.2
SPC/KTZ ROUSSILLON-I2		28	230	1.2
SPC/KTZ GOLD LAME-I2	<i>Mica (And) Titanium Dioxide (And) Iron Oxides (CI 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	26	260	1.2
SPC/KTZ SUNBURST GOLD-I2	<i>Mica (And) Titanium Dioxide (And) Iron Oxides (CI 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	75	260	1.0

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Surface Treated Microspheres: have been developed for easier use in formulations containing oil. Treated Microspheres offer the following properties:

- enhanced skin feel
- soft focus
- all of the properties of the treatment that it contains
- better blendability on the skin
- better adhesion

	Trade Name	INCI Name	Size (µm)	Oil Abs (g/100g)	Bulk Density (g/in ³)
Polymer Microspheres	BPA-5I5	Polymethyl Methacrylate (And) Isopropyl Titanium Trisostearate	9	50	3.8
	Nylon 10-12	Nylon-12 (And) Isopropyl Titanium Triisostearate	8	56	3.5
	CT-2 NYLON SP-500	Nylon-12 (And) Chitosan	5	65	3.0
	New MST-547-FS	Polymethylsilsesquioxane (And) Perfluorooctyl Triethoxysilane	4	47	6.3
	New SP-10-FS	Nylon-12 (And) Perfluorooctyl Triethoxysilane	9	60	4.4
Mineral Microspheres	SILICA SHELLS-SH	Silica (And)	3	475	0.7
	MSS-500-NS5	Methoxy Amodimethicone/Silsesquioxane Copolymer	12	105	8.5
	New MSS-500N-FS	Silica (And) Perfluorooctyl Triethoxysilane	8	24	14.4
	New SILIGHT DS-PDL3	Silica (And) Dimethicone (And) Cetearyl Alcohol (And) Stearic Acid (And) Ceramide NP (And) Phytosterols	6	100	4.7
Natural Polymer Microspheres	CELLULOBEADS D-10-PC2	Cellulose (And) Hydrogenated Lecithin	11	35	5.1

This chart was prepared to assist in formulating with Microsphere Complexes. The information contained herein is believed to be accurate at the time of printing, but should not be used as a substitute for product specification sheets.

KCP-037 Fresh Glow Foundation

Part 1

- **BTD-11S2** - Kobo Products: Titanium Dioxide (And) Triethoxycaprylylsilane 24.20%
- **TALC U-11S2** - Kobo Products: Talc (And) Triethoxycaprylylsilane 5.90%
- **BYO-11S2** - Kobo Products: Iron Oxides (CI 77492) (And) Triethoxycaprylylsilane 3.50%
- **GMS-11S2** - Kobo Products: Mica (And) Triethoxycaprylylsilane 3.50%
- **BRO-11S2** - Kobo Products: Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane 1.75%
- **BBO-11S2** - Kobo Products: Iron Oxides (CI 77499) (And) Triethoxycaprylylsilane 0.75%
- Methyl Paraben NF - International Sourcing: Methylparaben 0.20%
- Propyl Paraben NF - International Sourcing: Propylparaben 0.20%

Part 2

- **Lexol® EHP** - Inolex Chemical Company: Ethylhexyl Palmitate 43.00%
- **PM WAX 82** - Toray/Kobo Products: Polyethylene (And) Microcrystalline Wax 3.00%
- **KOBOGUARD® 5400 SQ** - Kobo Products: Hydrogenated Polycyclopentadiene (And) Squalane 2.00%
- **Lameform® TGI** - BASF: Polyglycerol-3 Diisostearate 2.00%
- **Petroleum G-1958** - Ruger Chemical: Petrolatum 2.00%
- **SF1642** - Momentive: C30-45 Alkyl Dimethicone 2.00%
- **Carnauba Wax SP 63P** - Strahl & Pitsch: Copernicia Cerifera (Carnauba) Wax 1.00%
- **Microcrystalline Wax SP-89** - Strahl & Pitsch: Microcrystalline Wax 1.00%
- **Cetiol® SB 45** - BASF: Shea Butter 0.50%

Part 3

- **DSPCS/H-12** - Kobo Products: Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate 3.50%

Manufacturing Procedure

1. Blend Part 1 and pass through a micropulverizer until the color is fully dispersed.
2. Heat Part 2 with stirring to 80°C.
3. Add Part 1 to Part 2 and mix until homogenous.
4. Add Part 3.
5. Continue to mix until uniform while maintaining temperature.
6. Pour at 78°C-80°C.

Description

This Fresh Glow Foundation formula features Kobo's 11S Silane-Treated Pigments that disperse easily and adhere well to the skin. **KOBOGUARD® 5400 SQ**, resin composite, gives quick build up with a water-resistant film, and aids in long wear. **DSPCS/H-12** gives a lightweight feel and helps the formula go immediately into a powder on the skin. **PM WAX 82** helps with the structure.