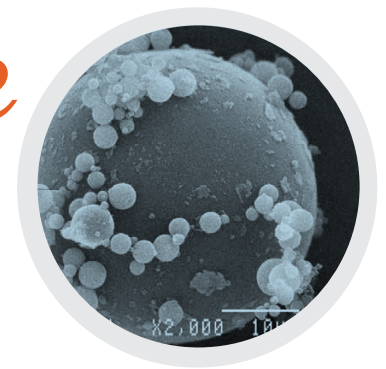


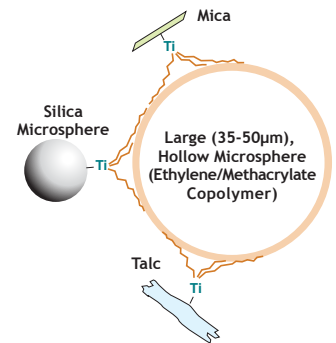
Hollow Microsphere Complexes



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	<i>Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate</i>	25	260	1.4
SPC/KTZ INTERVAL GOLD-I2		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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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%
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Manufacturing Procedure

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



KMA-079A

Wax Free Gel Mascara

Part 1

● Deionized Water - Water	23.00%
● Trisodium EDTA - Protameen: Trisodium EDTA	0.10%

Part 2

● PROPYLENE GLYCOL - Ruger Chemical: Propylene Glycol	5.00%
● Solagum™ AX - Seppic: Acacia Senegal Gum (And) Xanthan Gum	0.40%
● Natrosol® 250 HHR CS - Ashland: Hydroxyethylcellulose	0.30%

Part 3

● NOMCORT® HK-P - Ikeda: Polyglyceryl-10 Behenate/Eicosadioate	2.25%
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Part 4

● Prisorine™ 3515 - Croda: Isostearyl Alcohol	1.00%
● Tween™ 80 - Croda: Polysorbate 80	0.25%

Part 5

● Carbowax™ Sentry™ PEG 1450 - Dow Chemical: Polyethylene Glycol	2.00%
● Deionized Water - Water	2.00%

Part 6

● Deionized Water - Water	17.20%
● Eastman AQ™ 55S Polymer - Eastman Chemical: Polyester-5	0.80%

Part 7

● Lexgard® O - Inolex: Caprylyl Glycol	0.20%
● S-6W-6 - Shin-Etsu: Simethicone	0.05%

Part 8

● COMPOSITE ACCB-33 - Kobo Products: Kaolin (And) Black 2 (And) Acrylates Copolymer (And) Sodium Polyacrylate	14.60%
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Part 9

● Euxyl® PE 9010 - Schulke & Mayr: Phenoxyethanol (And) Ethylhexylglycerin	0.80%
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Part 10

● MSP-822 - Kobo Products: Polymethyl Methacrylate	5.00%
● DSPCS/20N-I2 - Kobo Products: Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	2.00%

Part 11

● Zemea® - Du Pont & Tate: Propanediol	2.00%
● AQUA KEEP 10SH-NFC - Sumitomo Seika/Kobo Products: Sodium Acrylates Crosspolymer-2	0.30%

Part 12

● DAITOSOL 5000STY - Daito/Kobo Products: Styrene/Acrylates Copolymer (And) Water	19.75%
● N-6 ARCH 3.3T1 - Nikko/Kobo Products: Nylon-6	0.50%
● N-6 ARCH 3.3T2 - Nikko/Kobo Products: Nylon-6	0.50%

Manufacturing Procedure

- Combine Part 1 (main beaker) and begin mixing while heating to 45-50°C.
- Premix Part 2 and slowly add to Part 1. Heat to 75°C.
- Add Part 3 and mix until dissolved. Turn off heat.
- Premix Part 4 and add to main beaker.
- Premix Part 5 and add to main beaker.
- In side beaker, begin mixing Part 6 water and heat to 75°C.
- Once heated, add Eastman AQ™ 55S Polymer and mix until dissolved.
- Turn off heat, and add premixed Part 7, followed by Parts 8 and 9.
- Slowly add this phase to main beaker.
- Add Part 10 to batch.
- Premix Part 11 and add to batch.
- Premix Part 12 and add to batch.

Description

This Wax Free Gel Mascara features triangular Nylon-6 fibers, N-6 ARCH 3.3T1 and N-6 ARCH 3.3T2, which give the lashes both length and volume. Kobo's Microsphere Complex, DSPCS/20N-I2, is lightweight and provides volume to the lashes, while MSP-822 improves application. Composite ACCB-33, Black 2 (CI 77266) encapsulated in an acrylate copolymer matrix composite, provides mechanical resistance during use and enhanced tactile properties in application while intensifying the black color. AQUA KEEP 10SH-NFC gels the aqueous phase of the formula. DAITOSOL 5000STY is used to give a long-wearing film and provide water resistance.

KOBO*Microsphere Complexes*

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