A composite material is made from two or more constituent materials with significantly different physical or chemical properties that, when combined, produce a material with characteristics different from the individual components.

There are several possible structures for building a composite microsphere:
- A modifier dispersed in a polymer matrix
- A shell covering a core of a different composition
- A mineral platelet covered with small polymer particles.

Kobo Products offers a broad range of these novel Composite Microspheres, to allow formulators to take advantage of their unique structures: improved skin feel and affinity, optical blurring, ease of formulation and/or radiance.

### Matrix & Modifier Structure

MSP-AK06, MSP-TK04 are Composite Microspheres with a matrix and a modifier, giving them a higher refractive index than regular PMSQ microspheres. Their composition combined with a textured surface makes them ideal for improved skin feel and optical blurring.

US-450 has small PSMQ particles embedded within the polyurethane matrix at the periphery of the microsphere. It selectively diffuses light to boost color intensity.

### Core & Shell Structure

These composites have in common a structure where a shell modifies the physicochemical characteristics of the core material.

SESQ-MH5 has a shell made of silica which renders the PMSQ-core hydrophilic and easily dispersible in water. SILCRUSTA MK03 is based on the same principle, with an MMA Crosspolymer core and a PMSQ textured shell.

### Semi-Spherical Composite Microspheres

UP-611 are composite microspheres, with a PMMA core and a Polyurethane outer shell, showing a unique, semi-spherical shape. Due to their shape and composition they have been shown to adhere better than spherical particles to the skin, improve color intensity when mixed with pigments and act as SPF boosters in sunscreen products.

### PMMA-Coated Pearls

SK-45-R is a pearlescent pigment coated with small PMMA particles to limit the specular reflection and create a more natural look. It is used to give radiance and a natural glow to the skin.

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**USA & Canada Program**

USA - New Jersey  
+1 (908) 757-0033  
FRANCE - Labege  
+33 (0)5-62-88-77-40  
BRASIL - São Paulo  
+55 (11) 5062-0634  
www.koboproducts.com
**Part 1**

- Deionized Water - Water 55.70%
- CES-1104 - Nusil/Kobo Products: Dimethicone (And) Water (And) Glycerin (And) Pentylene Glycol (And) Dimethicone/ Vinyl Dimethicone Crosspolymer (And) Amomdimethicone (And) Carbomer (And) Phenoxyethanol (And) Sodium Hydroxide (And) Disodium Edta 5.00%
- Butylene Glycol - Ruger Chemical: Butylene Glycol 3.00%
- Germaben II - ISP: Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben 1.00%
- GS-GT - Kobo Products: Water (And) Camellia Sinensis Leaf Extract (And) Palmitoyl Hydroxypropyltrimium Amylopectin/ Glycerin Crosspolymer (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin 1.00%
- GS-PPY - Kobo Products: Water (And) Papain (And) Palmitoyl Hydroxypropyltrimion Amylopectin/ Glycerin Crosspolymer (And) Phenoxyethanol (And) Hydrogenated Lecithin (And) Parabens 1.00%
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**Part 2**

- Protachem™ CTG - Protameen: Caprylic/Capric Triglyceride 11.00%
- EA-209 - Kobo Products: Ethylene/Acrylic Acid Copolymer 5.50%
- SESQ-MH5 - N&K/Kobo Products: Polyethylene/silsesquioxane (And) Silica 5.00%
- SALACOS® 99 - Ikeda: Isononyl Isononanoate 4.00%
- Abil® Care XL 80 - Evonik: Bis-PEG/PPG-20/5 PEG/PPG-20/5 Dimethicone (And) Methoxy PEG/PPG-25/4 Dimethicone (And) Caprylic/Capric Triglyceride 3.00%
- BPD-500W - Kobo Products: HDI/Trimethyl Hexylactone Crosspolymer (And) Silica 3.00%