

KoboBlur™ 100 Natural

Plastic-Free Powder Complex for Multimedia Soft Focus Effect

Micron-sized powders are very popular today for their soft focus effect. Studies have shown that relative refractive index of the particles and of the formula is an important characteristic that affects their efficacy. However, it can be challenging to find a particle that is efficient in multiple formulas because refractive index of the formula varies with its composition and after application on the skin. Kobo Products has developed the powder complex **KoboBlur™ 100 Natural**, made only of minerals and natural ingredients,

using no plastic particles; the ingredients of this complex have complimentary refractive indexes and scatter light in a wide range of formulas. In vitro tests show it exhibited the same effect regardless of the media into which it was dispersed. Panel testing scored high for its capacity to hide skin imperfections and for its nice skin feel.

INCI: Silica (And) Cellulose (And) Mica (And) Barium Sulfate (And) Titanium Dioxide (And) Jojoba Esters
Average Particle Size: 8µm

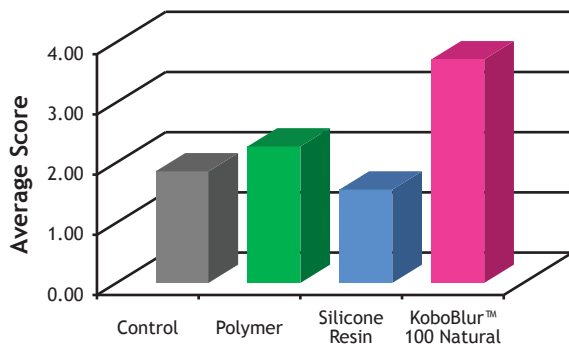
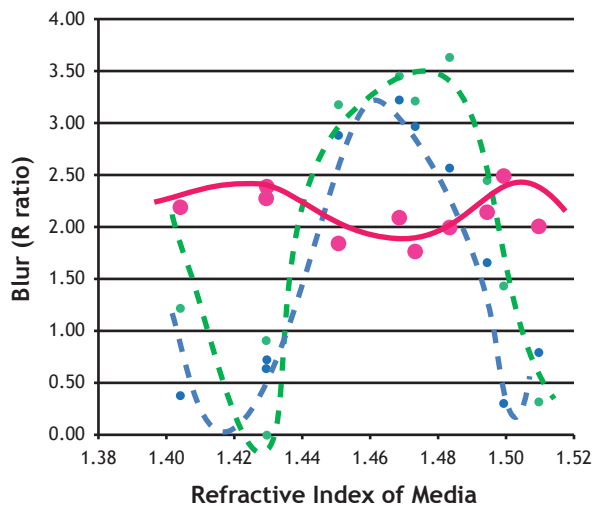
In Vitro Testing

KoboBlur™ 100 Natural, a polymer microsphere and a silicone resin microsphere were dispersed (10% w/w) in media of known refractive indexes and drawn-down on a glass plate.

The ability of each dispersion to provide haze was measured with a hazemeter and the result plotted vs. the R.I. of the media.

KoboBlur™ 100 Natural (pink line) scatters light in any of the media, while the polymer microsphere (green dotted line) and the silicone resin microsphere (blue dotted line) only scatter light efficiently in a narrow range of refractive indexes.

The range of RI's used in this test represent the range of systems commonly used in formulations.



Panel Testing

KoboBlur™ 100 Natural, a polymer microsphere and a silicone resin microsphere were formulated (15% w/w) in a O/W base emulsion.

The capacity to hide skin imperfections (soft focus) was assessed by a panel of 7 people after application on the forearm and compared with a control. Scores were averaged and plotted.

KoboBlur™ 100 Natural clearly outperformed both simple microspheres and the control in this test.

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KoboBlur™ 100 Natural

Natural Brightening Face and Eye Balm

Formula KFL-118A

Part 1

- Protachem™ CTG - Protameen: *Caprylic/Capric Triglyceride* 23.16%
- Castor Oil - Arista Industries, Inc.: *Ricinus Communis (Castor) Seed Oil* 14.80%
- JOS10M5 - Kobo Products: *Simmondsia Chinensis (Jojoba) Seed Oil (And) Silica* 9.00%
- SunBoost ATB™ Natural - Kobo Products: *Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol* 5.00%
- BTD-ASG2 - Kobo Products: *Titanium Dioxide (And) Stearoyl Glutamic Acid* 2.50%
- BRO-ASG3 - Kobo Products: *Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid* 0.12%
- YELLOW 5AL-ASG4 - Kobo Products: *Yellow 5 Lake (And) Stearoyl Glutamic Acid* 0.12%

Part 2

- Beeswax White SP 422P - Strahl & Pitsch: *Beeswax* 5.00%
- Candellilla Wax - Frank B. Ross: *Euphorbia Cerifera (Candelilla) Wax* 5.00%
- Lanolin Technical Grade - RITA Corp.: *Lanolin* 3.00%
- Shea Butter - BASF: *Shea Butter* 2.50%
- Carnuba Wax SP 63P - Frank B. Ross: *Copernicia Cerifera (Carnauba) Wax* 2.00%
- Lexgard® Natural - Inolex: *Glyceryl Caprylate (And) Glyceryl Undecylenate* 1.00%

Part 3

- KoboMica L-24 - Kobo Products: *Mica* 13.80%
- KoboBlur™ 100 Natural - Kobo Products: *Silica (And) Cellulose (And) Mica (And) Barium Sulfate (And) Titanium Dioxide (And) Jojoba Esters* 10.00%
- KTZ® XIAN VISTAS - Kobo Products: *Titanium Dioxide (And) Mica (And) Iron Oxides (CI 77491)* 3.00%

Manufacturing Procedure

1. Combine Part 1 and homogenize until pigments are dispersed.
2. Add Part 2 to Part 1. Prop mix and heat until waxes are melted.
3. Slowly add Part 3.
4. Mix slowly while cooling to reduce air bubble formation. Pour at 65° C.

Description

This all-natural, brightening balm stick gives excellent soft focus as well as a powdery after feel due to Kobo's Microsphere Complex, KoboBlur™ 100 Natural. It also features SunBoost ATB™ Natural, which contains a proprietary ratio of anti-oxidant, anti-irritant, and anti-inflammatory agents, leaving a moisturizing feel to the skin. JOS10M5 gives structure and emolliency to the stick. This balm has a peach tint due to ASG treated pigments. This treatment is an amino acid coating that imparts a moist, creamy feel to the skin. KoboMica L-24 gives a natural sheen and luster as well as excellent skin adhesion and slip upon application. KTZ® XIAN VISTAS is a pearlescent pigment specially designed to neutralize dark circles.

Creamy Pressed Powder with KoboBlur™ 100 Natural

Formula KPP-104A

Part 1

- GMS-ASG3 - Kobo Products: *Mica (And) Stearoyl Glutamic Acid* 70.48%
- KoboBlur™ 100 Natural - Kobo Products: *Silica (And) Cellulose (And) Mica (And) Barium Sulfate (And) Titanium Dioxide (And) Jojoba Esters* 10.00%
- BTD-ASG2 - Kobo Products: *Titanium Dioxide (And) Stearoyl Glutamic Acid* 7.00%
- ZINC MYRISTATE - Kobo Products: *Zinc Myristate* 2.20%
- BYO-ASG3 - Kobo Products: *Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid* 1.00%
- BRO-ASG3 - Kobo Products: *Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid* 0.86%
- BBO-ASG3 - Kobo Products: *Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid* 0.46%

Part 2

- Lexol® PG-865 - Inolex Chemical Company: *Propylene Glycol Dicaprylate/Dicaprate* 2.50%
- Xiameter® PMX-200 SILICONE FLUID 20CS - Dow Corning: *Dimethicone* 2.50%
- Xiameter® PMX-200 SILICONE FLUID 350CS - Dow Corning: *Dimethicone* 2.00%
- SS4267 - Momentive: *Dimethicone (And) Trimethylsiloxysilicate* 1.00%

Manufacturing Procedure

1. Micropulverize Part 1 until color is fully developed.
2. Add Part 2 to Part 1.
3. Blend well.
4. Press at 700 psi.

Description

This pressed powder applies smoothly as a result of Kobo's ASG treated materials to provide a soft, velvet-like feel in combination with KoboBlur™ 100 Natural to enhance product payoff. KoboBlur™ 100 Natural gives a soft powdery after feel with soft focus effect. Powder compressibility is addressed with our dry binder, ZINC MYRISTATE.

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