

Natural Surface Treatment

Jojoba Esters Treatment (NJE)**

Hydrogenated jojoba oil is a straight chain ester of 36 to 46 carbons in length. It does not have branching or points of unsaturation and contains terminal methyl groups at each end. As with jojoba oil there is no triglyceride component. Through hydrogenation of the colorless, flavorless jojoba oil, a functional and exceptionally pure, white solid is produced. Because of its high melting point the treatment is stable at high temperatures.

Kobo's patent pending surface treatment enables pigment particles to be rendered hydrophobic with this treatment.

Jojoba Esters have similar properties to the human sebum, which help to balance the sebum on the skin. They can contribute to moisturizing dry skin while easing sebum production in oily skin. Due to the natural origin of this treatment, it is ideal for use in formulas containing natural claims.

NJE treated pigments and powders offer a creamy feel and a good affinity to the skin. They are recommended for use in powders due to their good pressability, as well as emulsions and hot pours.

****Patent Pending**

Trade Name	INCI Name	Product Type
BBO-NJE2*	Iron Oxides (C.I. 77499) (And) Jojoba Esters	Black Iron Oxides
BRO-NJE2*	Iron Oxides (C.I. 77491) (And) Jojoba Esters	Red Iron Oxides
BYO-NJE3*	Iron Oxides (C.I. 77492) (And) Jojoba Esters	Yellow Iron Oxides
Red 7CA K-NJE2	Red 7 Lake (And) Jojoba Esters	D&C Red 7 Calcium Lake
RBTD-671-NJE2*	Titanium Dioxide (And) Jojoba Esters	Pigmentary Titanium Dioxide
KoboMica L-27-NJE2*	Mica (And) Jojoba Esters	Mica
GMS-NJE3*	Mica (And) Jojoba Esters	Sericite
Talc N-NJE2	Talc (And) Jojoba Esters	Talc
ZnO XZ-NJE5*	Zinc Oxide (And) Jojoba Esters	Attenuation Grade Zinc Oxide
ZnO-C-NJE3*	Zinc Oxide (And) Jojoba Esters	Non-Nano Zinc Oxide
TTO-NJE8*	Titanium Dioxide (And) Alumina (And) Jojoba Esters	Non-Nano Titanium Dioxide
TEL-100-NJE5*	Titanium Dioxide (And) Jojoba Esters (And) Silica (And) Alumina	Non-Nano Titanium Dioxide
MT-500B-NJE5	Titanium Dioxide (And) Jojoba Esters	Attenuation Grade Titanium Dioxide
MPT-154-NJE8*	Titanium Dioxide (And) Alumina (And) Jojoba Esters	Non-Nano Titanium Dioxide
UV Balance Powder 100-NJE8	Titanium Dioxide (And) Alumina (And) Jojoba Esters	Attenuation Grade Titanium Dioxide

Natural-Treated Mineral Powder

Formula KPW-007A

Part 1

● GMS-NJE3* - Kobo Products: <i>Mica (And) Jojoba Esters</i>	73.40%
● TTO-NJE8* - Kobo Products: <i>Titanium Dioxide (And) Alumina (And) Jojoba Esters</i>	15.00%
● RBTD-671-NJE2* - Kobo Products: <i>Titanium Dioxide (And) Jojoba Esters</i>	5.00%
● BYO-NJE3* - Kobo Products: <i>Iron Oxides (C.I. 77492) (And) Jojoba Esters</i>	5.00%
● BRO-NJE2* - Kobo Products: <i>Iron Oxides (C.I. 77491) (And) Jojoba Esters</i>	1.00%
● BBO-NJE2* - Kobo Products: <i>Iron Oxides (C.I. 77499) (And) Jojoba Esters</i>	0.60%

Manufacturing Procedure

Pass premixed Part 1 through a micropulverizer or suitable equipment until color is fully extended.

Description

A Natural-Treated Mineral Powder that shows excellent color development, adhesion to skin, and even application due to Kobo's Natural Jojoba Ester Treatment.

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Natural Surface Treatment

Carnauba Wax Treatment (CW)

Carnauba Wax is a vegetable wax obtained from the leaves of a Brazilian palm tree (*Copernicia Cerifera*) which has both hypoallergenic and emollient properties. It is among one of the hardest natural waxes with a melting point of 75°C and can be used in cosmetics for its

thickening properties. Kobo's Carnauba Wax (CW) surface treatment renders pigments and powders hydrophobic and enables them to offer a creamy, soft feel with good adhesion to the skin. They are recommended for use in powders to improve pressability and stability.

Trade Name	INCI Name	Product Type
BBO-CW4	Iron Oxides (C.I. 77499) (And) Copernicia Cerifera (Carnauba) Wax	Black Iron Oxides
BRO-CW4	Iron Oxides (C.I. 77491) (And) Copernicia Cerifera (Carnauba) Wax	Red Iron Oxides
BYO-CW4	Iron Oxides (C.I. 77492) (And) Copernicia Cerifera (Carnauba) Wax	Yellow Iron Oxides
RBTD-671-CW4	Titanium Dioxide (And) Copernicia Cerifera (Carnauba) Wax	Pigmentary Titanium Dioxide
Rose Talc-CW5	Talc (And) Copernicia Cerifera (Carnauba) Wax	Talc
Sericite UW-A5	Mica (And) Carnauba Wax	Sericite

Hydrogenated Lecithin Treatment (PC)

Hydrogenated Lecithin is a popular natural treatment for cosmetics comprised of phospholipids. Its benefits are disclosed in expired U.S. Patent 4,622,074.

It moisturizes the skin by promoting an increase in the skin's hydration, offers emollient properties, and provides a soothing effect, while functioning as an anti-oxidant.

Kobo has developed a new series of Hydrogenated Lecithin (PC) treated products. PC treated pigments and powders are hydrophobic. They offer a creamy texture, moisturizing feel and excellent affinity to the skin. They are ideal for use in powders and mineral makeup and can also be used in emulsions.

Trade Name	INCI Name	Product Type
New Cellulo Beads D-10-PC2*	Cellulose (And) Hydrogenated Lecithin	Cellulose Microsphere
GMS-PC2	Mica (And) Hydrogenated Lecithin	Sericite
MICA S-PC	Mica (And) Hydrogenated Lecithin	Mica

Natural Powder with NJE Treated Materials

Formula KPP-020E

Part 1

- **GMS-NJE3*** - Kobo Products: Mica (And) Jojoba Esters 45.18%
- **Talc N-NJE2** - Kobo Products: *Talc (And) Jojoba Esters* 40.00%
- **RBTD-671-NJE2*** - Kobo Products: *Titanium Dioxide (And) Jojoba Esters* 7.00%
- **BYO-NJE3*** - Kobo Products: *Iron Oxides (C.I. 77492) (And) Jojoba Esters* 1.00%
- **BRO-NJE2*** - Kobo Products: *Iron Oxides (C.I. 77491) (And) Jojoba Esters* 0.86%
- Lexgard® Natural - Inolex Chemical Company: *Glyceryl Caprylate (And) Glyceryl Undecylenate* 0.50%
- **BBO-NJE2*** - Kobo Products: *Iron Oxides (C.I. 77499) (And) Jojoba Esters* 0.46%

Part 2

- Jojoba Oil - Desert Whale Jojoba Co., Inc.: *Simmondsia Chinensis (Jojoba) Seed Oil* 5.00%

Manufacturing Procedure

1. Blend Part 1 through pulverizer until color is fully developed.
2. Add Part 2 and blend well.
3. Press at 300 psi.

Description

This natural powder foundation features Kobo's Jojoba Ester-treated pigments and powders to give great feel, even application and good adherence on the skin, contributing to long wear.

* Ecocert Approved for 2011

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