

Natural Surface Treatments

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 patented 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 #US 8623386 B2
Natural Ester, Wax or Oil Treated Pigment, Process for Production Thereof, and Cosmetic Made Therewith

Trade Name	INCI Name	Product Type
BBO-NJE2+	Iron Oxides (CI 77499) (And) Jojoba Esters	Black Iron Oxides
BEUB-NJE3+	Ultramarines (And) Jojoba Esters	Ultramarine Blue
BRO-NJE2+	Iron Oxides (CI 77491) (And) Jojoba Esters	Red Iron Oxides
BYO-NJE3+	Iron Oxides (CI 77492) (And) Jojoba Esters	Yellow Iron Oxides
BTD-NJE2+	Titanium Dioxide (And) Jojoba Esters	Pigmentary Titanium Dioxide
RED 7CA K-NJE2	Red 7 Lake (And) Jojoba Esters	D&C Red No. 7 Calcium Lake
YELLOW 5AL-NJE8	Yellow 5 Lake (And) Jojoba Esters	FD&C Yellow No. 5 Aluminum Lake
RBTD-671-NJE2+	Titanium Dioxide (And) Jojoba Esters	Pigmentary Titanium Dioxide
KoboMica 1000S-NJE5	Synthetic Fluorophlogopite (And) Jojoba Esters	Mica
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 750-NJE7	Zinc Oxide (And) Jojoba Esters	Attenuation Grade Zinc Oxide
ZnO-C-NJE3+	Zinc Oxide (And) Jojoba Esters	Non-Nano Zinc Oxide
A15-TiO ₂ -S-NJE10	Titanium Dioxide (And) Hydrated Silica (And) Jojoba Esters	Non-Nano Titanium Dioxide
MPT-154-NJE8+	Titanium Dioxide (And) Alumina (And) Jojoba Esters	Non-Nano Titanium Dioxide
MT-500B-NJE5	Titanium Dioxide (And) Jojoba Esters	Attenuation Grade Titanium Dioxide
UV BALANCE POWDER 100-NJE8	Titanium Dioxide (And) Alumina (And) Jojoba Esters	Attenuation Grade Titanium Dioxide



+ Raw material approved by Ecocert in accordance with the Cosmos and Ecocert Standards

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 (CI 77492) (And) Jojoba Esters 1.00%
- **BRO-NJE2+** - Kobo Products: Iron Oxides (CI 77491) (And) Jojoba Esters 0.86%
- Lexgard® Natural - Inolex Chemical Company: Glyceryl Caprylate (And) Glyceryl Undecylenate 0.50%
- **BBO-NJE2+** - Kobo Products: Iron Oxides (CI 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.

Technical Literature ref Nat-SfT-002 - July 17, 2017

KOBO

Kobo Products, Inc.
3474 So. Clinton Ave.
So. Plainfield, NJ 07080
USA
tel +1 (908) 757-0033
fax +1 (908) 757-0905

Kobo Products, SAS
135 Rue Buissonniere
Quartier Bouysset
31670 LABÈGE
France
tel +33 (0)5-62-88-77-40
fax +33 (0)5-62-88-77-49

Kobo Brasil Ltda.
Rua Bamboré n.41
Ipiranga - São Paulo/SP
Brasil
04278-060
Tel: +55 (11) 5062-0634

www.koboproducts.com

Natural Surface Treatment

Hydrogenated Lecithin Treatment (PC)

Hydrogenated Lecithin is a popular natural treatment for cosmetics comprised of phospholipids.

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
CELLULOBEADS D-10-PC2	Cellulose (And) Hydrogenated Lecithin	Cellulose Microsphere
GMS-PC2	Mica (And) Hydrogenated Lecithin	Sericite
MICA S-PC	Mica (And) Hydrogenated Lecithin	Mica

Not recommended for heating above 70°C during manufacturing

Oil-Absorbing, Natural Pressed Powder with COVERSIL-100

Formula KPP-103A

Part 1

- **TALC N-NJE2** - Kobo Products: *Talc (And) Jojoba Esters* 57.18%
- **GMS-NJE3** - Kobo Products: *Mica (And) Jojoba Esters* 20.00%
- **RBTD-671-NJE2+** - Kobo Products: *Titanium Dioxide (And) Jojoba Esters* 7.00%
- **MAGNESIUM MYRISTATE** - Kobo Products: *Magnesium Myristate* 2.50%
- **COVERSIL-100** - BoKwang/Kobo Products: *Silica* 2.50%
- **BYO-NJE3+** - Kobo Products: *Iron Oxides (CI 77492) (And) Jojoba Esters* 1.00%
- **BRO-NJE2+** - Kobo Products: *Iron Oxides (CI 77491) (And) Jojoba Esters* 0.86%
- **Lexgard® Natural** - Inolex Chemical Company: *Glyceryl Caprylate (And) Glyceryl Undecylenate* 0.50%
- **BBO-NJE2+** - Kobo Products: *Iron Oxides (CI 77499) (And) Jojoba Esters* 0.46%

Part 2

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

Manufacturing Procedure

1. Blend Part 1 through pulverizer until color is fully developed.
2. Add Part 2 and blend well.
3. Press at 500 psi.

Description

This natural powder foundation features COVERSIL-100, which helps to absorb oil and also gives the powder a very creamy and smooth feel on skin. COVERSIL-100 is used as a functional filler to help with the flowability of a pressed powder. Kobo's patented Natural Jojoba Ester-treated pigments and powders (NJE) gives great feel, even application, and good adherence on the skin, contributing to long wear. MAGNESIUM MYRISTATE is a dry binder to help with formula compressibility.



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