

# Hybrid Surface Treatment

## Polyhydroxystearic Acid & Silane (11SP)\*

Kobo now offers a double treatment of silane and polyhydroxystearic acid (11SP). This patent pending treatment renders the pigments and powders hydrophobic and lipophilic.

The properties of 11SP exhibit the same properties of 11S which allow the pigments and powders to be easily dispersed into esters, mineral oils, and silicone fluids. Due to its hydrophobic and lipophilic properties, a higher pigment loading can be achieved.

In addition, 11SP also offers the ability to make a pressed powder using dimethicone as the sole liquid binder, while providing an ultra creamy feel with excellent spreadability without a glazing effect.

**\*Patent Pending**

Trade Name	INCI Name	Product Type
BBO-11SP	Iron Oxides (C.I. 77499) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Black Iron Oxides
BRO-11SP	Iron Oxides (C.I. 77491) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Red Iron Oxides
BYO-11SP	Iron Oxides (C.I. 77492) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Yellow Iron Oxides
BTD-11SP	Titanium Dioxide (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Pigmentary Titanium Dioxide
GMS-11SP	Mica (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Sericite
Mica S-25-11SP	Mica (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Mica
Talc N-11SP	Talc (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Talc

## Silky Powder with 11SP Treatment

### Formula KPP-031

#### Part 1

- **TALC N-11SP** - Kobo Products: *Talc (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 51.20%
- **GMS-11SP** - Kobo Products: *Mica (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 35.00%
- **BTD-11SP** - Kobo Products: *Titanium Dioxide (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 7.50%
- **BYO-11SP** - Kobo Products: *Iron Oxides (C.I. 77492) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.90%
- **BRO-11SP** - Kobo Products: *Iron Oxides (C.I. 77491) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.30%
- **BBO-11SP** - Kobo Products: *Iron Oxides (C.I. 77499) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.10%

#### Part 2

- **SF96-350**- Momentive/Kobo Products: *Dimethicone* 5.00%

#### Manufacturing Procedure

1. Micropulverize Part 1 until color is fully developed.
2. Add Part 2 to Part 1.
3. Blend well and micropulverize.
4. Press at 250 psi.

#### Description

This silky feeling pressed powder contains Kobo's new 11SP treated pigments and fillers. It uses Momentive/Kobo's 350 cst. Dimethicone as the only binder. By using the combination of 11SP and Dimethicone alone, this powder shows good pressability at low pressure and gives an ultra creamy feel.



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# Hybrid Surface Treatment

## Isopropyl Titanium Triisostearate & Sodium Lauroyl Aspartate & Zinc Chloride (ASI)\*

Isopropyl Titanium Triisostearate ITT surface treatment is one of Kobo's patented technologies which is extremely lipophilic and allows pigments and powders to be easily dispersed in many esters, oils and hydrocarbons at over 80% solids. Generally, Amino Acid treated pigments and powders are not easily dispersed in lipophilic vehicles.

The combination of Amino Acid and ITT (ASI) render the powders and pigments lipophilic making them easily dispersible in silicones and esters. ASI provides moisturizing properties, a smooth feel and uniform adhesion to the skin. Recommended use includes pressed powders, emulsions and hot pours.

**\*Patent Pending**

Trade Name	INCI Name	Product Type
ASI BLACK BL-100P	Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Black Iron Oxides
ASI RED R-516P	Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Red Iron Oxides
ASI YELLOW LL-100P	Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Yellow Iron Oxides
ASI TiO <sub>2</sub> CR-50	Titanium Dioxide (And) Aluminum Hydroxide (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Pigmentary Titanium Dioxide
ASI SERICITE GMS-4C	Mica (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Sericite
ASI MICA YW-2300X	Mica (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Mica
ASI TALC JA-46R	Talc (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	Talc

## W/O Liquid Foundation

Formula Daito DL-0024-ASI

### Part 1

- BY22-008M - Dow Corning: *PEG/PPG-18/18 Dimethicone (And) Cyclopentasiloxane* 15.00%
- KF-56 - Shinetsu Chemical Company: *Phenyl Trimethicone* 5.00%
- KF-995 - Shinetsu Chemical Company: *Cyclopentasiloxane* 5.00%
- Salacos 1913 - Nisshin Oillio: *Tridecyl Isononanoate* 5.00%
- Emulmin NL-70 - Sanyo Kasei: *Laureth-7* 0.50%
- Thixcin R - Elementis Specialties: *Trihydroxystearin* 0.40%
- Waxenol 822 - Alzo International Inc.: *Arachidyl Behenate* 0.30%
- Sasol Wax C-80 - Sasol: *Synthetic Wax* 0.10%

### Part 2

- **ASI TiO<sub>2</sub> CR-50** - Daito/Kobo Products: *Titanium Dioxide (And) Aluminum Hydroxide (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride* 8.50%
- **ASI TALC JA-46R** - Daito/Kobo Products: *Talc (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride* 5.00%
- **ASI YELLOW LL-100P** - Daito/Kobo Products: *Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride* 1.00%
- **ASI RED R-516P** - Daito/Kobo Products: *Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride* 0.30%
- **ASI BLACK BL-100P** - Daito/Kobo Products: *Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride* 0.20%

### Part 3

- Deionized Water - *Water* 43.00%
- 1,3-Butylene Glycol - Active Concepts: *Butylene Glycol* 8.00%
- Sodium Chloride - Morton Salt: *Sodium Chloride* 2.00%
- Unisept DSA - Universal Preserv-A-Chem: *Sodium Dehydroacetate* 0.30%
- Methyl Paraben NF - International Sourcing: *Methylparaben* 0.15%
- Phenoxyethanol - Clariant: *Phenoxyethanol* 0.15%
- Disodium EDTA - American Int'l: *Disodium EDTA* 0.10%

### Manufacturing Procedure

1. Combine Part 2 ingredients and blend well to develop color.
2. Add Part 2 to Part 1 under stirring.
3. Heat Parts 1 and 2, and heat Part 3 separately.
4. Add Part 3 to Parts 1 and 2. Keep stirring until it becomes homogeneous.

### Description

This water-resistant W/O foundation contains ASI-Treated fillers and pigments, which are easily dispersed and provide a smooth feel and a uniform adherence on the skin. The new amino acid coating provides an excellent effect on moisturizing.

**KOBO**

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