# Silane & Polyhydroxystearic Acid Hybrid Treatment

***INCI name:*** *Triethoxycaprylylsilane (And) Polyhydroxystearic Acid*

Code: 11SP

Kobo now offers a double treatment of silane and polyhydroxystearic acid (11SP). This patented 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.

**US 9662280B2, 9254398B2, WO 2010111279,**
**CN 102361702B, JP 6184099B2, EP 2411162A4**
Self-dispersible coated metal oxide powder, and process for production and use

| Trade Name | INCI Name | Product Type |
|---|---|---|
| **BWRO-11SP (C33-8001)** | *Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* | Red Iron Oxides |
| **BWYO-11SP (C33-9001)** | *Iron Oxides (CI 77492) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* | Yellow Iron Oxides |
| **BWBO-11SP (C33-7001)** | *Iron Oxides (CI 77499) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* | Black Iron Oxides |
| **BTD-11SP** | *Titanium Dioxide (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* | Pigmentary Titanium Dioxide |
| **RBTD-671-11SP** | *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 |
| New **ZNO-750-11SP** | *Zinc Oxide (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* | UV-Attenuation ZnO |

KPP-031A

## Silky Powder with 11SP Treatment

**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%
- **BWYO-11SP (C33-9001)** - Kobo Products: *Iron Oxides (CI 77492) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.90%
- **BWRO-11SP (C33-8001)** - Kobo Products: *Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.30%
- **BWBO-11SP (C33-7001)** - Kobo Products: *Iron Oxides (CI 77499) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.10%

**Part 2**
- ELEMENT14 PDMS 350 - Momentive: *Dimethicone* 5.00%

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

**Description**
This silky feeling pressed powder contains Kobo's 11SP treated pigments and fillers. By using the combination of 11SP and dimethicone as the sole binder, this powder shows good pressability at low pressure and gives an ultra creamy feel.