

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
New ZNO-750-11SP	Zinc Oxide (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	UV-Attenuation ZnO

KOBO

USA - New Jersey
+1 (908) 757-0033

BRASIL - São Paulo
+55 (11) 5062-0634

UK - Abingdon
+44 7913 636 673

FRANCE - Labège
+33 (0)5-62-88-77-40



KPP-031A

Silky Powder with 11SP Treatment

Part 1

- XIAMETER™ PMX-200 Silicone Fluid 2.0 cSt - Dow Chemical: *Dimethicone* 14.93%
- Permethyl® 99A - Presperse: *Isododecane* 7.00%
- CXG-1104 - Avantor/Kobo Products: *Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer* 4.50%
- KOBOGUARD® MQ60DM- Kobo Products: *Trimethylsiloxysilicate (And) Dimethicone* 3.40%
- Silsurf® B2010 - Siltech Corporation: *PEG-10 Dimethicone* 3.00%
- Abil® EM 90 - Evonik: *Cetyl PEG/PPG-10/1 Dimethicone* 1.00%
- CARESS® BN09 - Bent Tree/Kobo Products: *Boron Nitride* 1.00%
- SILICA SHELLS - Kobo Products: *Silica* 0.40%

Part 2

- XIAMETER™ PMX-200 Silicone Fluid 2.0 cSt - Dow Chemical: *Dimethicone* 2.00%
- BENTONE® 38 - Elementis: *Disteardimonium Hectorite* 0.50%
- PROPYLENE CARBONATE - Sigma Aldrich: *Propylene Carbonate* 0.17%

Part 3

- BTD-11SP - Kobo Products: *Titanium Dioxide (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 8.63%
- BWYO-11SP (C33-9001) - Kobo Products: *Iron Oxides (CI 77492) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 1.04%
- BWRO-11SP (C33-8001) - Kobo Products: *Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.20%
- BWBO-11SP (C33-7001) - Kobo Products: *Iron Oxides (CI 77499) (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid* 0.13%

Part 4

- Deionized Water - *Water* 39.00%
- GLYCERIN U.S.P. F.C.C. 96% - P&G Chemicals: *GlycerinP* 4.00%
- Butylene Glycol - Ruger Chemical: *Butylene Glycol* 3.00%

- Sodium Chloride - Morton Salt: *Sodium Chloride* 0.70%
- Symdiol® 68 - Symrise: *1,2-Hexanediol (And) Caprylyl Glycol* 0.50%
- Symsave® H - Symrise: *Hydroxyacetophenone* 0.50%
- Magnesium Sulfate Heptahydrate - Sigma Aldrich: *Magnesium Sulfate* 0.30%
- Dermofeel® PA-3 - Dr. Straetmans/Evonik: *Sodium Phytate* 0.10%

Part 5

- MSS-500W-LL10 - Kobo Products: *Silica (And) Lauroyl Lysine* 4.00%

Manufacturing Procedure

1. Combine Part 1 in the main beaker under the homogenizer at 1500-2000 rpm. Heat to 75°C.
2. Pre-mix Part 2 in a side beaker. Add Part 2 to Part 1 while maintaining speed at 1500-2000 rpm.
3. Pulverize Part 3. Add to main beaker. Homogenize at 2500-3000 rpm until homogeneous.
4. Combine Part 4 in a side beaker under prop mixer. Heat to 75°C. Mix until uniform.
5. Add Part 4 to Parts 1, 2, and 3. Homogenize at 4500-5000 rpm for 10 minutes at 70°C.
6. Sprinkle in Part 5 to the main beaker. Mix until smooth and homogeneous..

Description

A matte, long wear and lightweight foundation with buildable coverage that smooths and evens the skin. It features Kobo's **11SP-treated pigments** that disperse easily, create the shade and provide a nice silky feel. MSS-500W-LL10 improves payoff, adds a soft focus effect and silky feel. CARESS® BN09 enhances the formula with increased slip and a creamy feel. SILICA SHELLS absorbs excess oil to ensure wear is long-lasting. KOBOGUARD® MQ60DM is a film former that improves water resistance. CXG-1104 is a silicone elastomer gel that gives a smooth and velvety texture, enhancing after feel with a light and silky slip.