

Triethoxy Caprylylsilane

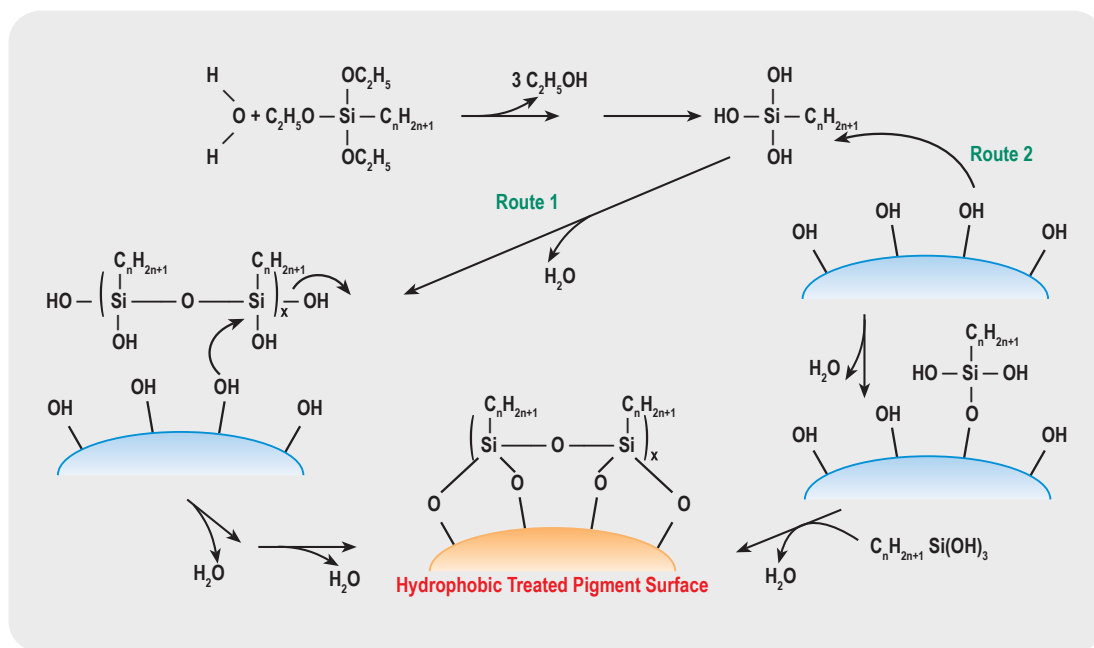
Treatment-11S



Triethoxycaprylylsilane is a very reactive surface-treating agent, because the hydrolysis of Si-O bond takes place readily in presence of moisture to form silanol.

The caprylylsilyl group is then chemically bonded to the pigment via a condensation reaction between the silanol group formed above and the hydroxyl groups of the pigment surface. This reaction is thus especially suitable for treatment of metal

oxides. At the completion of the reaction, all ethoxy groups are substituted and caprylylsilyl groups are crosslinked to the pigments to form a very stable coating, even at low pH.



Silicone treated pigments disperse well in cyclomethicones. They have a very low surface tension and excellent hydrophobicity, but they sometimes have poor wettability in common organic vehicles. While they offer maximum water repellency, triethoxycaprylylsilane treated pigments, because of the lipophilic caprylyl groups, are easy to disperse in esters,

mineral oils and silicone fluids : higher pigment loading can be achieved as compared to methicone treated pigments. The treatment is also physicochemically stable, even at pH 3, has no residual methanol, and, due to the absence of Si-H bonds, has zero hydrogen potential.

Trade Name	INCI Name	Product type
MT-600B-11S5	Titanium Dioxide (And) Triethoxycaprylylsilane	Attenuation Grade Titanium Dioxide
A120-ZNO-11S3		
MZO-35-11S5		
ZNO FSF-11S4	Zinc Oxide (And) Triethoxycaprylylsilane	Attenuation Grade Zinc Oxide
ZNO-USP1-11S3		
New ZNO XZ-11S3L		
New A1K-TiO2-11S2	Titanium Dioxide (And) Aluminum Hydroxide (And) Triethoxycaprylylsilane	IR Blocker
New TiO2-IR300-11S2		
BTD-11S2	Titanium Dioxide (And) Triethoxycaprylylsilane	Pigmentary Titanium Dioxide
RBTD-671-11S2		
BBO-11S2	Iron Oxides (CI 77499) (And) Triethoxycaprylylsilane	Black Iron Oxide
BLACK NF-11S2	Iron Oxides (CI 77499) (And) Triethoxycaprylylsilane	
BRO-11S2	Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane	Red Iron Oxide
BYO-11S2	Iron Oxides (CI 77492) (And) Triethoxycaprylylsilane	Yellow Iron Oxide
BEUB-11S2		Ultramarine Blue
BUV CG-11S2	Ultramarines (And) Triethoxycaprylylsilane	Ultramarine Violet
BFF-11S2	Ferric Ammonium Ferrocyanide (And) Triethoxycaprylylsilane	Blue Ferric Amm. Ferrocyanide
BGCO-11S3	Chromium Oxide Greens (And) Triethoxycaprylylsilane	Green Chromium Oxide
BHG TM-11S2	Chromium Hydroxide Greens (And) Triethoxycaprylylsilane	Green Chromium Hydroxide
RED 6BA C-11S5	Red 6 Lake (And) Triethoxycaprylylsilane	D&C Red No. 6 Barium Lake
RED 6SS-11S2	Red 6 (And) Triethoxycaprylylsilane	D&C Red No. 6
RED 7CA C-11S5	Red 7 Lake (And) Triethoxycaprylylsilane	D&C Red No. 7 Calcium Lake
RED 27AL-11S3	Red 27 Lake (And) Triethoxycaprylylsilane	D&C Red No. 27 Aluminum Lake
RED 28AL C-11S3	Red 28 Lake (CI 45410) (And) Triethoxycaprylylsilane	D&C Red No. 28 Aluminum Lake
RED 33AL-11S2	Red 33 Lake (And) Triethoxycaprylylsilane	D&C Red No. 33 Aluminum Lake
YELLOW 5AL-11S2	Yellow 5 Lake (And) Triethoxycaprylylsilane	FD&C Yellow No. 5 Aluminum Lake
YELLOW 6AL-11S2	Yellow 6 Lake (And) Triethoxycaprylylsilane	FD&C Yellow No. 6 Aluminum Lake
BLUE 1AL-11S4	Blue 1 Lake (And) Triethoxycaprylylsilane	FD&C Blue No. 1 Aluminum Lake
New KoboMica 1000S-11S2	Synthetic Fluorophlogopite (And) Triethoxycaprylylsilane	Synthetic Fluorophlogopite
GMS-11S2	Mica (And) Triethoxycaprylylsilane	Sericite
MICA S-11S4		Mica
TALC U-11S2	Talc (And) Triethoxycaprylylsilane	Talc
ASO-11S2	Aluminum Starch Octenylsuccinate (And) Triethoxycaprylylsilane	Aluminum Starch Octenylsuccinate



KBL-021A

Fresh Glow Cream Blush

Part 1

- ASO-11S2 - Kobo Products: Aluminum Starch Octenylsuccinate (And) Triethoxycaprylylsilane 10.00%
- GMS-11S2 - Kobo Products: Mica (And) Triethoxycaprylylsilane 6.05%
- BTD-11S2 - Kobo Products: Titanium Dioxide (And) Triethoxycaprylylsilane 4.00%
- BRO-11S2 - Kobo Products: Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane 2.00%
- RED 27AL-11S3 - Kobo Products: Red 27 Lake (And) Triethoxycaprylylsilane 0.75%
- Methyl Paraben NF - International Sourcing: Methylparaben 0.10%
- Propyl Paraben NF - International Sourcing: Propylparaben 0.10%

Part 2

- Lexol® EHP - Inolex Chemical Company: Ethylhexyl Palmitate 43.00%
- PM WAX 82 - Toray/Kobo Products: Polyethylene (And) Microcrystalline Wax 3.00%
- KOBOGUARD® 5400 SQ - Kobo Products: Hydrogenated Polycyclopentadiene (And) Squalane 2.00%
- Lameform® TGI - IBASF: Polyglycerol-3 Diisostearate 2.00%
- Petrolatum G1958 - Sonneborn Inc: Petrolatum 2.00%
- SF1642 - Momentive: C30-45 Alkyl Dimethicone 2.00%
- Carnauba Wax SP 63P - Strahl & Pitsch: Copernicia Cerifera (Carnauba) Wax 1.00%
- Microcrystalline Wax SP-89 - Strahl & Pitsch: Microcrystalline Wax 1.00%

- Cetiol® SB 45 - BASF: Shea Butter 0.50%
- KTZ® CLASSIC WHITE-11S2 - Kobo Products: Mica (And) Titanium Dioxide (And) Triethoxycaprylylsilane 8.50%
- KTZ® FOLIAGE FLUTTER - Kobo Products: Titanium Dioxide (And) Mica (And) Iron Oxides (CI 77491) (And) Triethoxycaprylylsilane 8.50%

Part 3

- DSPCS/H-12 - Kobo Products: Silica (And) Ethylene/Methacrylate (And) Isopropyl Titanium Triisostearate 3.50%

Manufacturing Procedure

- Blend Part 1 and pass through a micropulverizer until the color is fully dispersed.
- Heat Part 2 with T-blade stirring to 80°C.
- Add Part 1 to Part 2 and mix until homogeneous using a propeller blade.
- Add Part 3.
- Continue to mix until uniform while maintaining temperature.
- Pour at 78°C-80°C

Description

Fresh Glow Cream Blush features Kobo's 11S Silane-Treated Pigments that disperse easily and adhere well onto the skin. KOBOGUARD® 5400 SQ, resin composite, gives a water-resistant film and aids in long wear. KTZ® CLASSIC WHITE-11S2 and KTZ® FOLIAGE FLUTTER-11S2 offer a unique pearlescent effect. DSPCS/H-12 gives a lightweight feel and helps the formula transform into a powder on the skin. PM WAX 82 helps with the structure of this blush.

KOBO

Silane Treatment

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