

SunBoost ATB & SunBoost ATB Natural

SPF Booster with Antioxidant Benefits



The current trend towards increasing SPF values in sunscreens presents a challenge to formulators who have to create products with high concentrations of sunscreen agents while keeping acceptable cosmetic qualities.

Kobo has developed SunBoost ATB, a mixture of antioxidant, anti-irritant and anti-inflammatory agents at a proprietary ratio. When used in sunscreens in combination with organic and/or inorganic UV Filters, SunBoost ATB shows an increase in SPF and PFA scores by more than 30%.

An all natural, Ecocert approved version, SunBoost ATB Natural, is available.

SunBoost ATB is also available coupled with High Speed™ TiO₂ dispersion TNP50T7. TNP50T7-ATB can provide up to 4.5 SPF units for each percent of TiO₂ in sunscreen formulas while delivering all the benefits of the antioxidants contained in SunBoost ATB.

SunBoost ATB and SunBoost ATB Natural can be used in other types of formulas, for their antioxidants and anti-irritant properties.

Trade Name	INCI Name	Product Type
SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Oily Material
SunBoost ATB Natural+++	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Oily Material
TNP50T7-ATB	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Hydrogen Dimethicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol	TiO ₂ Dispersion with SunBoost ATB



+++ Raw material approved by Ecocert in accordance with the Ecocert Standard

Comparison of SPF and PFA of formulas with and without SunBoost ATB

Formula Reference	Actives	In Vivo SPF	PFA	% Boost on SPF	% Boost on PFA
KSL-138 O/W Base	Organic 31%	40	13	Control	
KSL-138V	Organic 31% SunBoost ATB 5%	54	17	35%	31%
KSL-177-CH W/O Base	TiO ₂ 5.78% ZnO 3.74%	19	7	Control	
KSL-177C-CH	TiO ₂ 5.78% ZnO 3.74% SunBoost ATB 3.6%	30	10	58%	43%
KSL-188 W/O Base	TNP50T7 18.53% (TiO ₂ 7.13%)	22	4	Control	
KSL-188E	TNP50T7-ATB 18.53% (TiO ₂ 6.85%)	32	7	45%	75%

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USA
New Jersey

BRASIL
São Paulo

UK
Abingdon

FRANCE
Labege

ASIA PACIFIC
Tokyo



KSL-476-EU

Clean Beauty Sunscreen Stick 3-in-1 Prime'n Glow



Part 1

● ZnO-660-ASGP7 - Kobo Products: Zinc Oxide (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	25.00%
● Emotion Light - Roelmi HPC: Tripelargonin	19.00%
● Dub Zenoat - Stearinerie Dubois: Propanediol dicaprylate	17.40%
● NHP55STS - Kobo Products: Titanium Dioxide (And) C13-15 Alkane (And) Stearic Acid (And) Aluminum Hydroxide (And) Polyhydroxystearic Acid	12.00%
● SunBoost ATB - Kobo Products: Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	3.00%
● Plurol Diisostearique - Gattefosse: Polyglyceryl 3 Diisostearate	2.00%
● Sensiva PA 40 - Schuelke: Phenylpropanol (and) Propanediol (and) Caprylyl Glycol (and) Tocopherol	0.60%

Part 2

● Sunflower Wax - Koster Keunen: Helianthus Annus (Sunflower) Seed Wax	4.00%
● Dub PTB - Stearinerie Dubois: Pentaerythrityl Tetrabehenate	3.00%
● Kesterwax K82H - Koster Keunen: C20-40 Alkyl Stearate	2.00%

Part 3

● CELLULOBEADS D-10-NPC2 - Kobo Products: Cellulose (And) Hydrogenated Lecithin	4.00%
● MSS-500/N - Kobo Products: Silica	4.00%
● KTZ® INTERFINE GOLD - Kobo Products: Mica (And) Titanium Dioxide	1.50%
● KTZ® INTERFINE RED - Kobo Products: Titanium Dioxide (And) Mica	1.50%
● MSS-500/3H - Kobo Products: Silica	1.00%

Manufacturing Procedure

1. Prepare Part 1 by dispersing powder ZnO in liquid emollients.
2. Add Part 2, heat to 95 °C, add Part 3 and mix till homogeneous.
3. Pour into containers at 85 °C and leave to cool at RT.

Description

This easy-to-use, waterless, 3-in-1 product is a sunscreen primer that also gives a glow effect to the skin, containing mostly vegetal and mineral origin ingredients. The formula contains ZnO-660-ASGP7, a Zinc Oxide powder with very high transparency, to provide UV protection. ASGP treatment ensures that the Zinc Oxide can be well dispersed at low energy, adding to the environmentally friendly credentials of the formulation, whilst ensuring a consistently maximized SPF. It also contains a very light and transparent TiO₂ dispersion, NHP55STS, to contribute to SPF protection along with SunBoost ATB for UV protection boosting and skin protecting efficacy. Mineral microspheres, MSS-500/N and MSS-500/3H, contribute to weightless application and good payoff as well as soft focus effects on the skin. CELLULOBEADS D-10-NPC2, a 10 micron cellulose microsphere with hydrogenated lecithin treatment which renders it more creamy, contributes softness and creaminess to the stick. KTZ® INTERFINE RED and GOLD are 5-25 micron particle size interference pearls that are responsible for the glow effect.

Active Ingredients

Titanium Dioxide	5.28%
Zinc Oxide	23.25%

Testing

SPF: in vivo on 5 subjects
UVA-PF: in vitro method
CW: FDA method



KCC-022

Natural Creamy All Over Concealer

Part 1

● Deionized Water - Water	40.75%
● GLYCERIN U.S.P. F.C.C. 96% - Ruger Chemical: Glycerin	2.00%
● Sodium Chloride - Morton Salt: Sodium Chloride	0.80%

Part 2

● Protachem™ CTG - Protameen: Caprylic/Capric Triglyceride	10.00%
● BENTONE® LUXE WO - Elementis: Polyglyceryl-6 Polyricinoleate (And) Polyglyceryl-3 Diisostearate (And) Distardimonium Hectorite	5.00%
● DUB ESTOLINE® - Stéarinerie-Dubois: Ethylhexyl Polyhydroxystearate	5.00%
● LexFeel™ N20 MB - Inolex: Diheptyl Succinate (and) Capryloyl Glycerin/Sebacic Acid Copolymer	3.50%
● JOS10M5 - Kobo Products: Simmondsia Chinensis (Jajoba) Seed Oil (And) Silica	3.00%
● SunBoost ATB Natural - Kobo Products: Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	2.15%
● SWEET ALMOND OIL NF - Jeen International: Prunus Amygdalus Dulcis (Sweet Almond) Oil	0.85%

Part 3

● BTD-ASGP3 - Kobo Products: Titanium Dioxide (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	10.25%
● BWYO-ASGP3 - Kobo Products: Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	3.15%
● BWRO-ASGP3 - Kobo Products: Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	0.50%
● BWBO-ASGP3 - Kobo Products: Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	0.30%

Part 4

● Olivem® 900 - Hallstar: Sorbitan Oliviate	1.75%
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Part 5

● CELLULOBEADS D-10 - Daito/Kobo Products: Cellulose	10.00%
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Part 6

● Geogard Ultra™ - Lonza: Gluconolactone (And) Sodium Benzoate	1.00%
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Manufacturing Procedure

1. Combine ingredients in Part 2 in main vessel under homogenizer.
2. When Part 2 is completely uniform, add Part 3. Continue homogenizing until color is fully developed.
3. Move to propeller mixer and start heating batch to 80 °C. Maintain 80 °C.
4. Add Part 4 to batch while propeller mixing.
5. Combine Part 1 and propeller mix until Sodium Chloride is completely dissolved. Begin heating Part 1 to 80 °C.
6. Add Part 1 to main vessel when both phases are at 80 °C under homogenizer.
7. Slowly sprinkle Part 5 followed by Part 6 and continue mixing until batch is cool.

Description

This creamy concealer corrects, conceals and highlights with a medium coverage natural finish. It is perfect for masking imperfections and hiding dark circles and blemishes. The coverage and shade is due to the ASGP treated pigments which disperse easily into the formula and promote better wear properties due to their skin adhesion properties. JOS10M5 adds body to the formula and provides conditioning properties. SunBoost ATB Natural provides extra conditioning and nourishing properties to the delicate undereye area. CELLULOBEADS D-10, a cellulose microsphere, adds creaminess to the formula, blurs lines and imperfections, improves payoff and contributes to the natural finish.

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SunBoost ATB

www.koboproducts.com