Facial Primer SPF 30

Example Formulation*

DESCRIPTION

An example of a matte facial primer delivering sun protection (SPF 30*) is described. The formula combines silicone elastomers with the film-forming properties of Ellamera BI-THIN 402 by Kraton to provide a velvety texture and durable facial primer, which blurs imperfections, protects the skin, and helps makeup apply and look better, longer.

PHYSICAL PROPERTIES

Appearance:	Translucent gel
Color:	Colorless to very light yellow
Odor:	Light fragrance
Flash point:	76ºC
Solubility (in water):	Insoluble
Viscosity (T-F, 0.5 rpm, 25ºC):	227,000 cP
Viscosity (T-F, 15 rpm, 25ºC):	59,000 cP

*The formulation above is intended for information purposes only based on the best of our knowledge. It is the responsibility of the customer to undertake the appropriate testing to determine the suitability of the product for their intended use.

COMPOSITION

INCI	Wt %	TRADE NAME	FUNCTION
Isodecyl Neopentanoate (and) Dimethicone/Bis Isobutyl PPG-20 Crosspolymer	50.00	DOWSIL EL-8051 IN Silicone Organic Elastomer Blend	Elastomer, sensorial
Neopentyl Glycol Diheptanoate (and) Isododecane	9.97	LexFeel D5	Emollient, solvent
Octocrylene	8.50	Parsol 340	UVB filter
Isododecane (and) Hexyl/Succinyl Dimethicone Crosspolymer	8.00	DOWSIL EL-7314 Silicone Elastomer Blend	Elastomer, sensorial
Ethylhexyl Methoxycinnamate	7.50	Parsol MCX	UVB filter
Diisooctyl Succinate	5.00	SustOleo DCS	Emollient, solvent
Ethylhexyl Salicylate	5.00	Parsol EHS	UVB filter
Butyl Methoxydibenzoylmethane	3.00	Parsol 1789	UVA filter
Hydrogenated Styrene/Isoprene Copolymer	3.00	Ellamera BI-THIN 402	Film former
Fragrance	0.03	Wild Oats (CF0030777)	Fragrance

* DOWSIL is a trademark of Dow Chemical; SUSTOLEO and LEXFEEL are trademarks of Inolex; PARSOL is a trademark of DSM; Fragrance was supplied by Clarity Fragrances.

EQUIPMENT

- Laboratory mixer, top stirring, side sweep
- Heating plate

PREPARATION

PHASE A

SustOleo DCS	5.00
Parsol EHS	5.00
Parsol MCX	7.50
Parsol 340	8.50
Parsol 1789	3.00

PHASE B

Ellamera BI-THIN 402	3.00

PHASE C

DOWSIL EL-7314 Silicone Elastomer Blend	8.00
DOWSIL EL-8051 IN Silicone Organic Elastomer Blend	50.00

PHASE D

LexFeel D5	9.97

PHASE E

Fragrance	0.03

- In side vessel, combine Phase A ingredients. Begin heating to 80-90°C with mixing to dissolve Parsol 1789.

- Add Phase B to Phase A with mixing. Continue heating to 80-90°C with mixing to dissolve polymer. Turn off heat once polymer is dissolved but keep mixing while mixture cools.

- In main vessel, add DOWSIL EL-7314 and begin mixing to soften and "liquify" the elastomer blend.

- Add DOWSIL EL-8051 IN to the main vessel in increments with mixing to fully blend the two elastomers (Phase C).

- Slowly add Phase D to Phase C with mixing, giving time for elastomer phase to incorporate the addition of fluid.

- Add A+B to C+D with mixing.

- Add fragrance (Phase E) with mixing. Mix until homogeneous.

PREPARATION NOTES

- A dispersion blade (or cowles blade) improved dispersion and increased rate of dissolution of the Ellamera polymer in Phase A+B.
- Sweeping the sides of the vessel during mixing is recommended to produce a homogenous product.

PACKAGING

The example formulation for a facial primer is formulated with silicone elastomers and emollient oils and needs packaging that protects against leakage during storage and transportation.

Test the compatibility with packaging material when using fragrance.

SAFETY NOTES

- Always be attentive when using mechanical equipment
- Manage all the ingredients with correct PPE in accordance with safety guidelines
- It is always better to cover the vessel during mixing.
- Review the safety data sheets for all the ingredients prior to formulating.

LEGAL DISCLAIMER

PURPOSE, OR NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY. The buyer assumes all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

FOR FURTHER INFORMATION

U.S.A Headquarters	**Asia Pacific**	**Europe, Middle East, Africa**
Kraton Polymers U.S LLC 15710 John F. Kennedy Blvd. Suite 300 Houston, Texas 77032 +1-800-4-KRATON (800-457-2866) info@kraton.com	Regional Headquarter/ Innovation Center Rm 2201, No.688, West Nan Jing Road 100 Century Avenue Shanghai, 200041, PR China +86 21 2082 3888 info.cn@kraton.com	Transistorstraat 16 NL - 1322 CE Almere The Netherlands +31 36 546 2846