



## UNDER THE SUN, UNDER THE EYE DEFENSE FILTER

This lightweight, under-eye, UV defense filter has a broad spectrum of a calculated SPF 30\* protection. It is specifically formulated using a gliding roller ball for the delicate eye area, leaving no visible white residue or trace of stickiness. **X50 Pure White CC Powder** is an encapsulated whitening active ingredient that targets UV-induced pigmentation and helps even the skin tone around the eye area to make it brighter and lighter. **Baobab Oil** nourishes the skin and optimizes moisturization. UV-dispersions **Luxscreen® TR14 AF 50** and **Luxscreen® Zn40 AF 50** are based on photostable lipids and mineral UV-filters encapsulated in a polymer structure, offering high stability, water resistance, and transparency in application. \*Calculated SPF

### PHASE A

Deionized Water	62.597%
<b>Dissolvine® NA2-S</b> <sup>1,2</sup> (Disodium EDTA)	0.10%
Glycerin 99.7% USP Kosher <sup>1</sup> (Glycerin)	3.00%
<b>X50 Pure White CC Powder</b> <sup>1,3</sup> (Glycolic Acid (and) Lactic Acid (and) Polyvinyl Alcohol)	0.003%

### PHASE B

<b>Endimate® 33V</b> <sup>1</sup> (Caprylic/Capric Triglyceride)	4.00%
<b>Baobab Oil</b> <sup>1,4</sup> (Adansonia Digitata Seed Oil)	1.00%
<b>Endicare® TN</b> <sup>1</sup> (C12-15 Alkyl Benzoate)	1.20%
<b>Endicare® OMC</b> <sup>1</sup> (Ethylhexyl Methoxycinnamate)	3.50%
<b>Endicare® OTX</b> <sup>1</sup> (Octocrylene)	2.00%

### PHASE C

<b>Endimulse® 165V</b> <sup>1</sup> (Glyceryl Stearate (and) PEG-100 Stearate)	4.00%
<b>Endimulse® EGDS</b> <sup>1</sup> (Glycol Distearate)	3.00%
Cetyl Alcohol <sup>1</sup> (Cetyl Alcohol)	1.00%

### PHASE D

<b>Endicare® AB</b> <sup>1</sup> (Butyl Methoxydibenzoylmethane)	3.00%
<b>Uvasorb® MET</b> <sup>1,5</sup> (Benzophenone-3)	3.00%

### PHASE E

<b>Luxscreen® TR 14 AF 50</b> <sup>1,6</sup> (Titanium Dioxide (and) Hydrogenated Polydecene (and) Styrene/Acrylates Copolymer)	5.00%
<b>Luxscreen® Zn 40 AF 50</b> <sup>1,6</sup> (Zinc Oxide (and) Hydrogenated Polydecene (and) Styrene/Acrylates Copolymer)	2.00%

### PHASE F

<b>Sharomix 713</b> <sup>1,7</sup> (Sodium Benzoate (and) Potassium Sorbate (and) Aqua)	0.80%
<b>Ultrapure Polymer 2055</b> <sup>1,8</sup> (Polyvinyl Acetate (and) Aqua)	0.80%



## Suppliers

<sup>1</sup>Coast Southwest, Inc., <sup>2</sup>AkzoNobel Functional Chemicals LLC, <sup>3</sup>Infinitec Barcelona, <sup>4</sup>ICSC International Cosmetic Science Centre, <sup>5</sup>3V Sigma-USA <sup>6</sup>The Innovation Company®, <sup>7</sup>Sharon-Laboratories Ltd, <sup>8</sup>Ultra Chemical, Inc.

## Properties

**pH:** 6.5-7.0

**Viscosity:** spindle 3 @ 50 rpm = 590-700 cst.

\*Calculated SPF 30

## Procedure

**Phase A** – In main vessel, add Phase A and begin propeller mixing at 200-300 rpm. Heat to 75-80°C. **Phase B** – In separate vessel, add Phase B ingredients with propeller mixing and begin heating to 40-45°C. **Phase C** – At 40-45°C, add Phase C ingredients to Phase B and bring heat up to 65-70°C. **Phase D** – At 65-70°C, add Phase D ingredients to Phase BC. Note: Allot time for powders to dissolve; solution will become yellow. When both phases have reached 75-80°C, add Phase BCD to Phase A slowly under a homogenizer at 2,400 rpm while maintaining the temperature during emulsification. Homogenize for 1 minute. Once the solution is uniform, switch back to propeller mixing, discontinue heat and begin cooling to 30-35°C. **Phase E** – At 35°C, add phase E to Phase ABCD. Increase speed as needed to mix the two phases together until fully uniform. **Phase F** – Add Phase F to Phase ABCDE with propeller mixing. Once uniform, transfer to a homogenizer and homogenize at 2,000 rpm and homogenize for <30 seconds. Once complete, transfer to a holding vessel.