

Tinted Moisturizer

with **Lysofix™ Liquid**, **Speramox™** and **Rosamox™**

Formulation: KPC/PD12021.04

- ◆ Uniform application
- ◆ Medium coverage
- ◆ Provides hydration

Natural
with
Science

Phases	Ingredients	% w/w
A	Deionized Water	61.66
	Xanthan Gum ¹	0.30
	Sodium Hydroxide ²	0.15
	Methylparaben ³	0.12
A2	Lysofix™ Liquid - Glycerin (and) Glycine soja (Soybean) Seed Extract	3.50
	Speramox™ - Maltodextrin (and) Mentha spicata (Spearmint) Leaf Extract	0.05
	Propanediol ⁴	3.00
B	<i>Olea europaea</i> (Olive) Seed Oil ⁵	6.00
	<i>Carthamus tinctorius</i> (Safflower) Oil ⁵	6.00
	Stearyl Alcohol ²	3.00
	Cetearyl Alcohol (and) Ceteth-20 Phosphate (and) Dicapryl Phosphate ⁶	5.00
	PPG-3 Benzyl Ether Myristate ⁶	4.00
	Coco-Caprylate ⁷	4.00
B2	Propylparaben ³	0.03
	Titanium Dioxide CI77891 ⁸	2.77
	Iron Oxides CI77492 ⁹	0.16
	Iron Oxides CI77491 ¹⁰	0.04
	Iron Oxides CI77499 ⁹	0.02
C	Citric Acid (33.3% solution)	q.s. to pH 5.0-6.5
D	Rosamox™ - Helianthus annuus (Sunflower) Seed Oil (and) Rosmarinus officinalis (Rosemary) Leaf Extract	0.25
E	Deionized Water	q.s. to 100
		Total: 100

Bold denotes products available from Kemin.

¹Ultra Chemicals Inc.; ²Spectrum Chemicals; ³G.S. Robins; ⁴Zemea® - DuPont Tate & Lyle; ⁵Sigma Aldrich; ⁶Crodafos™ CS20A, Crodamol™ STS - Croda; ⁷Cetiol® C5 - Cognis; ⁸Brenntag Specialties, Inc.; ⁹Sensient Color Technologies; ¹⁰Color Techniques, Inc.

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Manufacturing Process:

1. Disperse xanthan gum in Phase A and mix for 30 minutes in a side vessel.
2. Add Phase A2 to Phase A and heat to 82 °C while stirring.
3. Weigh and heat Phase B to 82 °C.
4. Add pre-ground Phase B2 to Phase B while stirring.
5. Homogenize both of the phases together for 20 minutes in a warm water bath.
6. Shift to overhead mixer and let cool while mixing with a paddle stirrer.
7. At 45 °C, add Phase C to adjust pH between 5.0 and 6.5.
8. Add Phase D and allow to mix well.
9. Add Phase E to make up the water lost in evaporation, mix until cool and uniform.

Stability:

- Stable for 5 freeze-thaw cycles
- Stable for 3 months at 45 °C

Characteristics:

Appearance:	Smooth and uniform
pH:	5.0-6.5 at 20 °C
Viscosity:	Between 20,000-25,000 cP at 20 °C
Centrifuge:	No separation at RT and 40 °C 4,000 rpm, 30 minutes



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Kemin Industries, Inc. | 2100 Maury Street Des Moines, IA 50317
Phone: +1-515-559-5100 | Toll Free: +1-800-777-8307
personalcare@kemin.com | www.kemin.com/personalcare

