

BB Bronzing Gel with Lysofix™ Liquid, Rosamox™ & FloraGLO™ Lutein 5% Topical Liquid in Safflower Oil

Formulation: KPC/PD13011.05

Phases	Ingredients	% w/w
A	Water	69.92
	Sodium Dehydroacetate	0.12
	Microcrystalline Cellulose (and) Cellulose Gum ¹	1.20
B	Glycerin	3.00
C	Lysofix™ Liquid - Glycerin (and) Glycine soja (Soybean) Seed Extract	5.00
D	Dimethicone	1.00
	Dimethicone PEG-7 Isostearate ²	3.00
	FloraGLO™ Lutein 5% Topical Liquid in Safflower Oil - Carthamus Tinctorius (Safflower) Seed Oil (and) Tagetes erecta Flower Extract	0.10
	Diheptyl Succinate (and) Capryloyl Glycerin/Sebacic Acid Copolymer ³	4.00
	Sunflower oil	5.00
	Rosamox™ - Helianthus annuus (Sunflower) Seed Oil (and) Rosmarinus officinalis (Rosemary) Leaf Extract	0.25
D2	Polyacrylate Crosspolymer-6 ⁴	1.00
E	Phenoxyethanol (and) Ethylhexylglycerin ⁵	1.00
F	Mica (and) Titanium Dioxide (and) Iron Oxides ⁶	1.00
	Mica (and) Titanium Dioxide (and) Iron Oxides ⁷	1.35
	Mica (and) Titanium Dioxide (and) Iron Oxides ⁸	0.90
	Mica (and) Titanium Dioxide (and) Iron Oxides ⁹	2.16
G	Citric Acid	q.s. to pH 5.5
		Total: 100

Bold denotes products available from Kemin.

¹VivaPur® Cos 5 - J. Rettenmaier ²SilSense® DW-18 - Lubrizol ³LexFeel® N350 - Inolex ⁴SepiMAX™ ZEN - SEPPIC

⁵Euxyl® PE 9010 - Schulke ⁶Timica® Nu-Antique Bronze 240 AB - BASF ⁷Cloisonne® Gold 222C - BASF ⁸Cloisonne® Sparkle

Gold 222J - BASF ⁹Timica® Golden Bronze 240A - BASF



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Manufacturing Process:

1. Weigh water in the main beaker. Add the powders of Phase A into water while homogenizing for 30 minutes.
2. Add Phases B and C to the main phase and mix.
3. Allow Phases D and D2 to blend using a slow overhead mixer.
4. Add Phases D and D2 to the main phase and allow a complete emulsion to form.
5. Add Phase E to the main phase and mix well.
6. Switch to sweep mixing.
7. Weigh and set aside colors of Phase F. Disperse them into the emulsion slowly. Homogenize for not more than 5 minutes.
8. Use Phase G to adjust the pH to 5.5.
9. Mix for 20 minutes until smooth and uniform.

Characteristics:

Appearance:	Pearlescent and luminous cream
Color:	Shimmery brown
Odor:	Fragrance-free
Centrifuge:	No separation at RT and 40°C 4000 RPM, 30 minutes
Viscosity:	15,000 cP - 20,000 cP Brookfield Viscometer DV II+, TB Spindle, 12 RPM
pH:	5.5 ± 0.5

Emulsion Stability:

Results to date:

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

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