



MICRO POWDERS, INC.

Specialty Micronized Wax Additives

BB CREAM WITH MICROPOLY 1160S			
INGREDIENT	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water	39.02	N/A
Caffeine Anhydrous Powder	Caffeine	0.20	N/A
Sucrose	Sucrose	0.50	N/A
Sodium Dehydroacetate	Sodium Dehydroacetate	0.05	N/A
Dissolve NA-2	Disodium EDTA	0.05	Akzo Noble
Hydrolite 5	Pentylene Glycol	2.00	Symrise
Phase B			
Butylene Glycol	Butylene Glycol	1.00	N/A
Keltrol CG	Xanthan Gum	0.20	CP Kelco
Phase C			
Escalol 587	Octyl Salicylate	4.00	Ashland LLC
Escalol 557	Octyl Methoxycinnamate	7.50	Ashland LLC
Escalol 567	Benzophenone-3	2.50	Ashland LLC
Linoleic Acid	Linoleic Acid	0.20	N/A
TNP40VTTS	C12-15 Alkyl Benzoate & Titanium Dioxide & Alumina & Polyhydroxystearic Acid & Isopropyl Titanium Triisostearate & Triethoxycaprylsilane	3.00	Kobo Products
Behenyl Alcohol	Behenyl Alcohol	0.70	N/A
Nikkomulse 41 BPC	Polyglyceryl-10 Pentastearate & Behenyl Alcohol & Sodium Stearoyl Lactylate	2.50	Barnet
Lexemul T	Glyceryl Stearate SE	1.80	Inolex
Dermol 20-SS	Octyldodecyl Stearoyl Stearate	1.30	Ashland LLC
Dow Corning 556 Fluid	Phenyl Trimethicone	2.00	Dow Corning
Protamate 2000-DPS	PEG-40 Stearate	1.25	Protameen Chemicals
Tinogard TT	Pentaerythrityl Tetra-DI-T-Butyl Hydroxyhydrocinnamate	0.09	BASF
Vitamin E-Acetate	DL-alpha-tocopheryl acetate	0.50	BASF
Aristoflex AVC	Ammonium Acryoldimethyltaurate/VP Copolymer	0.80	Clariant
Phase D			
Deionized Water	Water	6.00	N/A
Alcolec S	Lecithin	0.25	American Lecithin Co.
Butylene Glycol	Butylene Glycol	1.00	N/A
Bronidox 1160	Phenoxyethanol	0.10	DeWolf Chemicals
Titanium Dioxide 328 (50% Dispersion)	Titanium Dioxide & Butylene Glycol	10.70	N/A

Yellow Iron Oxide (50% Dispersion)	Iron Oxide & Butylene Glycol	0.80	N/A
Red Iron Oxide (60% Dispersion)	Iron Oxide & Butylene Glycol	0.20	N/A
Black Iron Oxide (60% Dispersion)	Iron Oxide & Butylene Glycol	0.04	N/A
Phase E			
Bronidox 1160	Phenoxyethanol	0.60	Cognis
Chlorophenesin	Chlorophenesin	0.10	N/A
Phase F			
Silicone HL-88	Dimethicone	3.50	Barnet
Phase G			
*Hyaluronic Acid (1.0% solution)		1.00	N/A
Gamma Oryzanol	Oryzanol	0.05	N/A
Phase H			
Micropoly® 1160S	Polyethylene	4.50	Micro Powders, Inc.
*Hyaluronic Acid (1.0% solution)			
Deionized Water	Water	98.10	N/A
Bronidox 1160	Phenoxyethanol	0.90	Cognis
Cristalhyal	Sodium hyaluronate	1.00	Actives International
	Total	100%	

Procedure

1. In a main kettle, with mixing, begin heating Phase A to 82°C.
2. Pre-mix Phase B in a separate vessel.
3. Add Phase B to Phase A and mix until uniform.
4. In a separate kettle, with mixing, begin heating Phase C to 85°C.
5. Under homogenization, When all phases are at appropriate temperature, slowly add Phase C to Phase A-B.
6. Hold the batch at emulsification temperature (82-85°C), and continue to homogenize for 10 min.
7. Pre-mix Phase D in a separate vessel.
8. Begin to cool the batch. At 65°C, slowly add Phase D to Phase A-B-C under homogenization. (As the batch thickens, adjust mix speed accordingly)
9. Pre-mix Phase E in a separate vessel.
10. Continue to cool the batch under homogenization. At 55°C, add Phase E to Phase A-B-C-D and mix until uniform.
11. Under homogenization, at 45°C, slowly add Phase F and mix until uniform.
12. Pre-mix Phase G in a separate vessel.
13. Under homogenization, at 40°C, slowly add Phase G and mix until uniform.
14. Under homogenization, at 40°C, slowly add Phase H powder and mix until uniform.
15. Continue cooling batch to 25°C.