



# MICRO POWDERS, INC.

Specialty Micronized Wax Additives

LIQUID FOUNDATION WITH MICROCARE 710			
INGREDIENT	INCI NAME	% W/W	SUPPLIER
<b>Phase A</b>			
Deionized Water	Water	42.89	N/A
Cellulose Gum	Sodium Carboxymethyl Cellulose	0.30	Hercules
Veegum HV	Magnesium Aluminum Silicate	0.35	Vanderbilt Minerals, LLC
Triethanolamine 99%	Triethanolamine	1.25	N/A
Butylene Glycol	Butylene Glycol	6.00	N/A
<b>Phase B</b>			
Deionized Water	Water	5.00	N/A
Alcolec S	Lecithin	0.25	American Lecithin Company
Titanium Dioxide 328 (50% Dispersion)	Titanium Dioxide & Butylene Glycol	16.00	N/A
Yellow Iron Oxide (50% Dispersion)	Iron Oxide & Butylene Glycol	1.60	N/A
Red Iron Oxide (60% Dispersion)	Iron Oxide & Butylene Glycol	1.33	N/A
Black Iron Oxide (60% Dispersion)	Iron Oxide & Butylene Glycol	0.33	N/A
Kaolin	Kaolin	2.00	Southern Clay Products
<b>Phase C</b>			
Permethyl 102A	Isoeicosane	10.00	Presperse
Emersol 871	Isostearic Acid	1.00	Henkel/Emery
Hystrene 9718 NF EXT PWDR	Stearic Acid	2.50	PMC Biogenix
Lexemul T	Glyceryl Stearate SE	2.50	Inolex
Liponate TDTM	Trimethyl Trimellitate	1.00	LIPO
<b>Phase D</b>			
<b>Microcare 710</b>	Copernicia Cerifera	5.00	<b>Micro Powders, Inc.</b>
BarGuard™ CP	(Carnauba) Wax & PTFE, Caprylyl Glycol, Phenoxyethanol & Hexylene Glycol	0.50	Hampford Research Inc.
<b>Total</b>		<b>100%</b>	

## Procedure

1. In a suitable kettle, charge water.
2. Slowly sprinkle in the Veegum HV, mix until well hydrated.
3. While mixing and agitating continuously, sprinkle in the Sodium Carboxymethyl Cellulose.
4. Mix for 20-30 minutes.
5. Start heating the batch to 75-80°C, add the balance of Phase A.
6. Pre-mix Phase B materials in a separate vessel.
7. When Phase A is uniform, slowly add Phase B to Phase A. Mix until uniform.
8. In a separate vessel, pre-mix Phase C materials and heat to 80-85°C.
9. When at the appropriate temperature, slowly add Phase C to Phase A-B. Mix for 15 min at 80-85°C.
10. Begin cooling the batch while mixing. At 45°C, slowly add Phase D to Phase A-B-C. Mix until homogeneous.