



MICRO POWDERS, INC.

Specialty Micronized Wax Additives

OIL FREE LIQUID FOUNDATION WITH MICROPOLY 250S			
INGREDIENT	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionized Water	Water	60.45	N/A
CMC 99-7MF	Sodium Carboxymethylcellulose	0.30	Aqualon
Veegum HV	Magnesium Aluminum Silicate	0.35	Vanderbilt Minerals, LLC
Butylene Glycol	Butylene Glycol	4.50	N/A
Alcolec S	Lecithin	0.50	American Lecithin
Triethanolamine 99%	Triethanolamine	1.30	N/A
Phase B			
Titanium Dioxide 3328	Titanium Dioxide	7.00	Sensient Colors LLC
Red Iron Oxide 7080	Iron Oxide	0.40	Sensient Colors LLC
Yellow Iron Oxide 7055	Iron Oxide	0.80	Sensient Colors LLC
Sericite PHN	Mica	2.00	Presperse
Spheron® P-1500	Silica	1.00	Presperse
Micropoly® 250S	Polyethylene	2.00	Micro Powders, Inc.
Phase C			
Permethy ^l ® 102A	Isoeicosane	10.00	Presperse
Emersol 871	Isostearic Acid	1.00	Henkel/Emery
Stearic Acid	Stearic Acid	3.00	N/A
Lipo GMS 450	Glyceryl Stearate	1.50	Lipo Chemicals
Liponate TDTM	Tridecyl Trimellitate	2.00	Lipo Chemicals
BarGuard™ S	Caprylyl Glycol, Phenoxyethanol & Hexylene Glycol	0.50	Hampford Research Inc.
Phase D			
Deionized Water	Water	1.00	N/A
	Total	100%	

Procedure

1. In a suitable kettle, equipped with Lightning type mixer, charge water.
2. Sprinkle slowly in, the Veegum HV, mix until well hydrated.
3. Then sprinkle in, the Carboxymethylcellulose, while mixing and agitating continuously.
4. Mix for about 20-30 minutes, depending upon the size of the batch and equipment used.
5. Start heating the kettle to 65-70°C, add the balance of Phase A, excluding the Triethanolamine.
6. Pre-mix Phase B ingredients and add to Phase A at 70°C. Mix well for 5-10 minutes.
7. Pass the batch through homomixer for 5 minutes. Add the Triethanolamine to Phase A. Mix well until pigments are uniformly and evenly dispersed.
8. Combine and pre-heat Phase C ingredients to 70-75°C, then add to Phase A and Phase B mixtures.
9. Mix for 10 minutes.
10. Cool the batch to 48°C and add Phase D. Continue cooling until room temperature.
11. Pour into appropriate containers.