



OIL FREE LIQUID FOUNDATION WITH MICROPOLY 250S

<u>Product Name</u>	<u>INCI Name</u>	<u>%W/W</u>	<u>Supplier</u>
Phase A			
Deionized Water	Water	60.75	N/A
CMC 99-7MF	Sodium Carboxymethylcellulose	0.30	Aqualon
Veegum HV	Magnesium Aluminum Silicate	0.35	Vanderbilt
Propylene Glycol	Propylene Glycol	4.50	N/A
Methylparaben, USP	Methylparaben	0.20	ISP
Alcolec S	Lecithin	0.50	American Lecithin
Triethanolamine 99%	Triethanolamine	1.30	N/A
Phase B			
Titanium Dioxide 3328	Titanium Dioxide	7.00	Whittaker
Red Iron Oxide 7080	Iron Oxide	0.40	Warner Jenkinson
Yellow Iron Oxide 7055	Iron Oxide	0.80	Warner Jenkinson
Sericite PHN	Mica	2.00	Presperse LLC
Spheron® P-1500	Silica	1.00	Presperse LLC
Micropoly 250S	Polyethylene	2.00	Micro Powders, Inc.
Phase C			
Permethyl® 102A	Isoeicosane	10.00	Presperse LLC
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
Propylparaben, USP	Propylparaben	0.20	ISP
Phase D			
Deionized Water	Water	1.00	N/A
Germall 115	Imidazolidinyl Urea	0.10	ISP

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.
12. Pour into appropriate containers.

