



# MICRO POWDERS, INC.

Specialty Micronized Wax Additives

FOUNDATION WITH GELCREAM 114S			
INGREDIENT	INCI NAME	% W/W	SUPPLIER
<b>Phase A</b>			
Deionized Water	Water	32.24	N/A
Trisodium EDTA	Trisodium EDTA	0.20	Protameen Chemicals Inc.
Triethanolamine 99%	Triethanolamine	0.90	N/A
Protasorb L-20	Polysorbate 20	0.30	Protameen Chemicals Inc.
Butylene Glycol	Butylene Glycol	15.00	N/A
Veegum F	Magnesium Aluminum Silicate	0.70	Vanderbilt Minerals, LLC
Keltrol CG	Xanthan Gum	0.25	CP Kelco
<b>Phase B</b>			
Covarine White WN 9787	Titanium Dioxide, Glycerin, water	9.00	Sensient Colors LLC
Covarine Yellow WN 1798	Iron Oxide Yellow, Glycerin, water	1.63	Sensient Colors LLC
Covarine Red WN 3798	Iron Oxide Red, Glycerin, water	0.53	Sensient Colors LLC
Covarine Black WN 9798	Iron Oxide Black, Glycerin, water	0.10	Sensient Colors LLC
AJM- Jetmilled Talc	Talc	2.50	Kobo Products Inc.
RonaFlair SynMica M	Synthetic Mica	5.00	Rona EMD Chemicals
<b>Phase C</b>			
Lexol IPM-NF	Isopropyl Myristate	9.50	Inolex Chemical Company
Protachem GMS-450	Glyceryl Stearate	2.00	Protameen Chemicals Inc.
Stearic Acid TP NF	Stearic Acid	1.70	Protameen Chemicals Inc.
Protachem OP	Octyl Palmitate	4.60	Protameen Chemicals Inc.
<b>Phase D</b>			
<b>GelCream 114S</b>	Polypropylene, Isohexadecane, Polyamide-8 & Polyhydroxystearic Acid	10.00	<b>Micro Powders, Inc.</b>
Camellia Sinensis Extract in Glycerin	Camellia Sinensis Extract, Glycerin	0.15	Bell Flavors & Fragrance
Barguard CP	Capryl Glycol, Phenoxyethanol & Hexylene Glycol	0.70	Hampford Research Inc.
<b>Total</b>		<b>100%</b>	

## Procedure

1. Weigh Phase A ingredients: Water, EDTA, TEA and Polysorbate 20 into a separate beaker. Start mixing using propeller blade at slow to medium speed until it is uniform and clear. Now in a separate beaker add Butylene glycol, VeeGum and Xanthan Gum. Mix well make slurry and pour in to Water phase. Start heating to 165°F under high speed mixing. Once temp reach to 165°F, mix for 30 minutes till gum hydrates completely. Check by making drawdown on a white paper.
2. Slowly add Phase B under high speed mixing. Continue high speed mixing until uniform phase is achieved.
3. Mix for 30 minutes. Check for undispersed pigment by making drawdown on white paper.
4. In separate beaker weigh Phase C, heat to 170°F under propeller medium speed mixing until clear.
5. Pour Phase C in to Phase A+B at constant slow rate speed at 165°F to 170°F.
6. Continue for 30 minutes at same temperature and speed with occasional side sweeping (emulsification step).
7. Cool the batch to 155°F and add Phase D GelCream 114S, continue slow mixing, batch temperature will go down to 145°F. Add remaining Phase D and maintain 145°F for 15 minutes. Mix for additional 5 minutes or more until gel is uniformly dispersed. Cool down the batch to ambient temperature.
8. Drop the batch in an appropriate container.

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