



MICRO POWDERS, INC.

Specialty Micronized Wax Additives

| FOUNDATION WITH MICROEASE 114S | | | |
|---------------------------------------|---|-------------|----------------------------|
| INGREDIENT | INCI NAME | % W/W | SUPPLIER |
| Phase A | | | |
| Deionized Water | Water | 42.04 | N/A |
| Trisodium EDTA | Trisodium EDTA | 00.20 | Protameen Chemicals Inc. |
| Triethanolamine 99% | Triethanolamine | 00.90 | N/A |
| Protasorb L-20 | Polysorbate 20 | 00.30 | Protameen Chemicals Inc. |
| Butylene Glycol | Butylene Glycol | 15.00 | N/A |
| Veegum F | Magnesium Aluminum Silicate | 00.70 | Vanderbilt Minerals, LLC |
| Keltrol CG | Xanthan Gum | 00.25 | CP Kelco |
| Phase 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 |
| Phase C | | | |
| Microease 114S | Synthetic Mica | 3.20 | Micro Powders, Inc. |
| 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. |
| Phase D | | | |
| Camellia Sinensis Extract in Glycerin | Camellia Sinensis Extract, Glycerin | 0.15 | Bell Flavors & Fragrance |
| Barguard CP | Capryl Glycol, Phenoxyethanol & Hexylene Glycol | 0.70 | Ashland LLC |
| | Total | 100% | |

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 into Water phase. Start heating to 165°F under high speed mixing. Once temp reaches 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 till 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, except Microease 114S. Heat to 155° F under propeller medium speed mixing till clear. Uniformly disperse Microease 114S under high speed mixing just before emulsification.
5. Pour Phase C into Phase A+B at constant slow rate speed at 155°F to 160°F.
6. Continue for 20 Minutes at same temp and speed with occasional side sweeping.(emulsification step)
7. Cool the batch to 145°F and add Phase D. Maintain 145°F for 15 minutes. Mix for additional 5 minutes and cool down the batch to ambient temperature.
8. Drop the batch in an appropriate container.

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