

## Cream- Gel Mineral Foundation

(Sample Recipe for Titanium Dioxide)

| Cream- Gel Mineral Foundation  |          |                                    |
|--|----------|------------------------------------|
| Phase A  | Weight % | For 120 g / 4.3 oz                 |
| Titanium Dioxide (whitening agent)   | 2 %      | 2.4 g / 0.1 oz / 3/4 tsp           |
| Iron Oxide Yellow (color)  | 0.8 %    | 1 g / 0.04 oz / approx 1/2 tsp     |
| Iron Oxide Red (color)   | 0.3 %    | 0.4 g / 0.01 oz / approx 1/8 tsp   |
| Iron Oxide Black (color)   | 0.05 %   | 0.06 g / just a hue < 1/16 tsp     |
| Mica Spheres (powder, texturizer)  | 7 %      | 8.4 g / 0.3 oz / 2 Tbsp            |
| Phase B  |          |                                    |
| Distilled Water (diluent)  | 64.5 %   | 77.4 g / 2.8 oz / 1/4 cup 1 Tbsp   |
| PEG- 7 Glyceryl Cocoate (emulsifier)   | 4 %      | 4.8 g / 0.2 oz / 1 tsp             |
| Glycerin (humectant)   | 4 %      | 4.8 g / 0.2 oz / 1 tsp             |
| EDTA (stabilizer)  | 0.1 %    | 0.12 g / 1/16 tsp                  |
| Phase C  |          |                                    |
| Macadamia Nut Oil (emollient)  | 4 %      | 4.8 g / 0.2 oz / 1 tsp             |
| Triglyceride (emollient)   | 4 %      | 4.8 g / 0.2 oz / 1 tsp             |
| Isoeicosane (emollient)  | 4 %      | 4.8 g / 0.2 oz / 1 tsp             |
| GelMaker EMU (thickener, emulsifier)   | 3 %      | 3.6 g / 0.13 oz / little > 1/2 tsp |
| Vitamin E Acetate (antioxidant)  | 1 %      | 1.2 g / 0.04 oz / 26 drops         |
| Phase D  |          |                                    |
| Paraben- DU (preservative)   | 1 %      | 1.2 g / 26 drops                   |
| Fragrance  | 0.3 %    | 0.4 g / 8 drops                    |
| <p>Method: Mix the iron oxides and titanium dioxide with mortar and pestle (the small amount of iron oxide black is needed to adjust the color and take out some of the red color), test on white paper for color streaking, the color should be uniform. Then add the mica spheres and blend again well.</p> <p>Add phase B into a disinfected glass beaker and stir, add phase A to it and stir very well to disperse the pigments. Add phase C into another glass beaker and stir the ingredients until mixed. Add phase C to phase A/B and blend very well to form the cream- gel (little hand mixer works great. When to thick use a spatula. Then add phase D and stir again well. Fill into an airless dispenser, tuba bottle or wide cosmetic jar.</p> <p>Properties: Light Cream- Gel Foundation that is soft and creamy. Should measuring the small amounts of iron oxide pigments be to difficult replace them by using our pigment blends and add between 2- 4% to phase A. Adjust color by adding more titanium dioxide to make it lighter or more pigment blend to make it darker.</p> |          |                                    |