

Cream-Gel Mineral Foundation

(Sample Recipe for Iron Oxide Yellow)

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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 over 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

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. 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 too thick use a spatula. Then add phase D and stir again well. Fill into an airless dispenser, tube bottle or wide cosmetic jar.

Properties

soft and creamy cream-gel foundation. 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.