MAKINGCOSMETICS

Waterproof Mascara

(Sample Recipe for Iso-Dimethicone-Copolymer)

Waterproof Mascara

Phase A	Weight %	For 50 g / 1.8 oz
Carnauba Wax (thickener)	1 %	0.5 g
Candelilla Wax (thickener)	5 %	2.5 g
Beeswax (thickener)	5 %	2.5 g
Ozokerite Wax (thickener)	2 %	1 g
Stearic Acid (emulsifier)	5 %	2.5 g
Cetyl Alcohol (thickener, emollient)	3 %	1.5 g
Mineral Oil (emollient)	3 %	1.5 g
Phase B		
Deionized Water (diluent)	53.3 %	27.1 g
Iso-Dimethicone-Copolymer (thickener, waterproofing polymer)	5 %	2.5 g
Propylene Glycol (humectant)	3 %	1.5 g
Triethanolamine (neutralizer)	0.7 %	0.4 g / 8 drops
Phase C		
Propylene Glycol (humectant)	3 %	1.5 g
Iron Oxides (pigment)	5 %	2.5 g
Carbon Black (colorant)	5 %	2.5 g
Phase D		
Paraben-DU (preservative)	1 %	0.5 g / 10 drops

Method

For best results, use a 0.1g precise scale. Combine all the ingredients of Phase A and heat to 85C/185F. Combine all the ingredients of Phase B with the exception of the Iso-dimethicone copolymer. Begin mixing/agitation of Phase B and slowly sift in the Iso-dimethicone copolymer and heat to 85C/185F. When each phase is uniform, add Phase A to Phase B. With constant agitation add Phase C. Homogenize or mix really well to get a smooth consistency. Cool to 50C/120F, add Phase D. If mascara is too thick, dilute some with hot water. Package into mascara containers while still fluid.

Properties

Combination of pigments and carbon black for nice black mascara. Acrylates copolymer provides water resistance, increased moisture protection, and rub-off resistance. We found that the mascara stays on best when dusting lashes with face powder before applying mascara.