

Water-based creamy foundation with Eastman AQ™ 38S polymer

Part	Ingredient	Wt%	INCI	Manufacturer
A	Deionized water	62.2	Water (aqua)	—
A	Zemea® Propanediol	2.0	Propanediol	DuPont Tate & Lyle
A	Solagum™ AX	2.0	Acacia senegal gum (and) xanthan gum	SEPPIC
A	Triethanolamine 90% Care	0.3	Triethanolamine	BASF
B	AQ 38S (solution 30%)	13.5	Polyester-5	Eastman
C	Stearic acid USP (triple pressed)	3.0	Stearic acid	JEEN
C	Simulsol™ 165	4.0	Glyceryl stearate (and) PEG-100 stearate	SEPPIC
C	Lipocol® SC-20	1.5	Cetareth-20	Vantage
C	Xiameter™ PMX-200 Fluid	2.0	Dimethicone	Dow
D	Pigment blend bare neutral	6.0	Titanium dioxide, CI 77492 (iron oxides)	—
D	Mineral base	2.5	Mica (and) zinc oxide, titanium oxide (and) silica	—
E	KEM HEG	1.0	Phenoxyethanol (and) ethylhexylglycerin	Akema

Procedure

1. Weigh out liquid components of part A into clean, sanitized, stainless steel mixing vessel with mixer homogenizer attached. Heat to between 75° and 80°C.
2. Once at proper temperature, incorporate the powder slowly to avoid clumps (mixing speed 600–800 rpm).
3. Weigh out part B and add to part A; mix until parts A and B are homogeneous (keep mixing speed). *Continued >>>*

4. Weigh out part C into a clean, sanitized, stainless steel mixing vessel. Heat to between 70° and 75°C. Once parts A and B are homogeneous, incorporate part C. Mix until homogeneous (mixing speed 1,000–1,200 rpm).
5. Once parts A, B, and C are homogeneous, incorporate part D. Increase mixing speed to 1,400–1,600 rpm.
6. Start cooling down. Incorporate part E at less than 50°C.



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