



Zemea® Umbrella for Lashes

Water-resistant and volume mascara

Phase	Trade/drug name	INCI name	Wt.%
A	—	Deionized water	46.20%
	Zemea® propanediol	Propanediol	3.00%
A ₁	Keltrol® CG-SFT	Xanthan gum	0.40%
A ₂	CreaBlack® Super	CI 77499	10.00%
A ₃	Saliguard® MEPX	Phenoxyethanol, methylparaben, ethylparaben	1.00%
	—	Sodium hydroxide (pellets 100%)	0.40%
B	Palmera® B1802	Stearic acid, palmitic acid	5.00%
	Cutina GMS V	Glyceryl stearate	3.50%
	Beeswax	Cera alba	5.50%
	DC SW-8005 C30 resin wax	C30-45 alkyl dimethylsilyl polypropylsilsesquioxane	3.00%
	Xiameter® PMX-200 fluid 2 cs	Dimethicone	3.00%
	DC 680 ID fluid	Polypropylsilsesquioxane, isododecane	2.00%
C	Hybridur® 875 polymer dispersion	Polyurethane-2, polymethyl methacrylate	10.00%
	Planoxia-RG	Aqua, butylene glycol, Panax ginseng root extract	2.00%
	Coloursphere® WL 40 black HL	Styrene/acrylates copolymer, PEG 26-PPG 30 phosphate, CI 77499	5.00%
Total			100.00%

Prototype formulation provided by: Biesterfeld Spezialchemie GmbH., Zagreb, Croatia

Procedure

- Heat phase A to 85°C while stirring.
- Add and dissolve A1 while stirring. Then add A2 while stirring.
- Add and dissolve A3 while stirring. Homogenize the complete water phase.
- Heat phase B to 85°C-90°C. Emulsify phase A slowly to phase B while stirring. Homogenize.
- Cool down to room temperature and add the ingredients of phase C below 40°C in given order while stirring. Fill in container.
- Cool down to room temperature. Add ingredients of phase D below 40°C.

Product features

- Appearance: black and shiny emulsion
- Product benefit: long lasting, water resistant, volumizing
- Viscosity: 60000 - 100000 mpas (Brookfield DV-II: spindle 7, speed 10)
- Storage stability: stable for more than 3 months at 20°C, 40°C and 4°C