

Smoothing Conditioner (RC-12)

SeraShine® EM 503 (Dimethicone (and) Cocamidopropyl Betaine (and) Laureth-3 (and) Guar Hydroxypropyltrimonium Chloride) is a high-active silicone emulsion with a large particle size. It is ideal for coarse and frizzy hair where high conditioning is required, as it has an impressive smoothing effect.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Aqua (Water)	To 100	-	Vehicle
Glycerin	1.00	Surfac G995V/Surfachem	Humectant
Hydroxyethylcellulose	0.50	Natrosol 250 HHR-PC/Ashland	Thickener
Stearamidopropyl Dimethylamine	1.00	Incromine SD/Croda	Conditioning Fat
Citric Acid	0.50	Surfac Citric Acid Monohydrate BP/Surfachem	pH Adjuster
Cetyl Alcohol	3.00	Crodacol C90/Croda	Bodifying Fat
Stearyl Alcohol	3.00	Crodacol S95/Croda	Bodifying Fat
Behentrimonium Chloride (and) Isopropyl Alcohol	0.50	Incroquat Behenyl TMC-85/Croda	Conditioning Fat
Mangifera Indica (Mango) Seed Butter	0.50	Seatons Refined Mango Butter/Seatons	Moisturising
Dimethicone (and) Cocamidopropyl Betaine (and) Laureth-3 (and) Guar Hydroxytrimonium Chloride	3.08	SeraShine® EM 503/KCC Beauty	Conditioning Agent
Parfum (Fragrance)	0.40	Mango Blast Fragrance/Givaudan	Fragrance
Phenoxyethanol (and) Benzyl Alcohol (and) Potassium Sorbate (and) Aqua (And) Tocopheryl	1.00	Euxyl K700/Schülke	Preservative

Typical Properties

Appearance:	Opaque, white emulsion
Viscosity @ 25°C:	10000 – 20000cPs (Brookfield Helipath, T Bar C, 10rpm)
pH @ 25°C:	3.5 – 4.5

Method

Add the water to the vessel and begin to heat.

Premix the glycerin and hydroxyethylcellulose, add to the water and stir until thickened. Continue to heat to 80 – 85°C.

Add the Incromine and citric acid.

In a separate vessel, heat the Crodacols, Incroquat and Mango Butter until molten. When both phases reach 80 – 85°C, transfer the fats to the water phase. Homogenise for 5 minutes at 3000rpm.

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Transfer back to a paddle stirrer and cool to below 40°C.
Add the remaining ingredients in order.



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Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

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