

## Guide Formulation

### Personal Care

# Damage Repair Conditioner (RC-20)

SeraShine® EM 506 is a blend of high viscosity dimethicone and quaternised silicone for strong conditioning of dry, damaged and frizzy hair. It is easily incorporated into haircare formulations, and with a high active, can be used at relatively low levels.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Aqua (Water)	To 100	-	Vehicle
Glycerin	1.00	Surfac G995V/Surfachem	Humectant
Hydroxyethylcellulose	1.00	Natrosol 250 HHR-PC/Ashland	Thickener
Citric Acid	0.40	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster
Cetearyl Alcohol	5.50	Crodacol CS90/Croda	Bodifying Fat
Stearyl Alcohol	2.50	Crodacol S95/Croda	Bodifying Fat
Cetearyl Alcohol (and) Behentrimonium Methosulfate	0.70	SP-Incroquat Behenyl TMS-MBAL/Croda	Conditioning Fat
Bertholletia Excelsa Seed Oil	0.50	Seatons Brazil Nut Oil/Seatons	Nourishing
Dimethicone (and) Silicone Quaternium-17 (and) C12-14 sec-Pareth-9 (and) Laureth-4	3.12	SeraShine® EM 506/KCC Beauty	Conditioning Agent
Parfum (Fragrance)	0.40	-	Fragrance
Phenoxyethanol (and) Benzyl Alcohol (and) Potassium Sorbate (and) Aqua (and) Tocopheryl	1.00	Euxyl K700/Schülke	Preservative

### Typical Properties

Appearance:	Viscous, white emulsion
Viscosity @ 25°C:	10000 - 20000cP (Brookfield Helipath, T bar C, 10rpm)
pH @ 25°C:	3.5 - 4.5

### Method

Add the water to the vessel. Begin heating to 85°C.

Premix the glycerin with the HEC and add to the water. The product will thicken once fully dispersed.

Add the citric acid, stir until homogenous.

Add the fats, once at 85°C, ensure the fats have melted and transfer the batch to the homogeniser. Homogenise at 3000rpm for 3 - 5 mins, until white and smooth. Transfer back to the paddle stirrer and stir slowly, allowing to cool. Once below 40°C, add the rest of the ingredients in order, stirring well between additions.

Check pH and viscosity.

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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.