

## Starting point formulation – Repair conditioner – healthy hair

This conditioner gently strengthens and nourishes your hair, making it soft and supple and leaving it feeling healthy. It makes your hair easy to comb and shiny. **GARAMITE-7308 XR** is used to impart thickening and stabilizing properties.

**GARAMITE-7308 XR** is an easy to apply rheology additive for the oil phase, an organoclay based on the mixed mineral technology.

### Formulation

Position	Component	INCI	Supplier	Function	Dosage (%)
A	Demineralized Water	Water (Aqua)		Carrier	76.55
	Varisoft W 575 PG (SG)	Quaternium-87	Evonik	Conditioner	2.00
	Glycerol	Glycerin	Vwr	Moisturizing agent	2.00
	Abil 45 ME	Silicone Quaternium-22; Polyglyceryl-3 Caprate; Dipropylene Glycol; Cocamidopropyl Betain	Evonik	Conditioner	1.70
	SymHair Restore	Glycerin, Triticum Vulgare (Wheat) Protein, Water (Aqua)	Symrise	Active	2.00
	SymHair Shield	Pentylene Glycol, Water (Aqua), Glycerin, Triticum Vulgare (Wheat) Bran Extract, 1,2-Hexanediol, Caprylyl Glycol	Symrise	Active	1.00
	Tego Cosmo C100	Creatin	Evonik	Active	0.50
B	Tego CARE PBS-6 (MB)	Polyglyceryl-6 Stearate (and) Polyglyceryl-6 Behenate	Evonik	Emulsifier	3.00
	Varisoft EQ 65 (MB)	Distearoylethyl Dimonium Chloride (and) Cetearyl Alcohol	Evonik	Conditioner	4.00
	Apricot Kernel Oil	Prunus Armeniaca Kernel Oil	Gustav Heess	Emollient	1.00
	Crambe Oil	Crambe Abyssinica Seed Oil	Gustav Heess	Emollient	1.50
	Argan Oil	Argania Spinose Kernel Oil	Gustav Heess	Emollient	1.00
C	Citric Acid 10 %	Aqua, Citric Acid	Speiko	pH adjuster	0.72
D	<b>GARAMITE-7308 XR</b>	<b>QUATERNIUM-90 SEPIOLITE, QUATERNIUM-90 MONTMORILLONITE</b>	<b>BYK</b>	<b>Rheological modifier</b>	<b>1.50</b>
E	Japanese Romance F	Parfum	Bell	Fragrance	0.15
	Euxyl PE 9010	Phenoxyethanol, Ethylhexylglycerin	Ashland	Preservative	0.80
F	Citric Acid 10 %	Aqua, Citric Acid	Carl Roth	pH adjuster	0.58
<b>Total</b>					<b>100.00</b>

### Instructions (manufacturing procedure)

- Pour the water into a beaker.
- Add all materials one after the other while stirring. (Phase A) Heat to 75 °C.
- Add all the components of phase B to another beaker. (Phase B) Heat to 75–85 °C.
- Transfer phase B to phase A while stirring (500 rpm). Stir for 1 minute longer after the transfer.
- Homogenize (Ultra turrax 8,000 rpm) 2 min at 75 °C.
- Cool down to <40 °C while stirring. (500 rpm).
- Adjust the pH-value to 3,6–3,8.
- Add GARAMITE-7308 XR and stir with 800 rpm for 15 min.
- Add Euxyl PE 9010 and the fragrance while stirring (800 rpm).
- Cool to room temperature while stirring (500 rpm).
- Measure the pH value and adjust to a value between 4.0–4.5 with citric acid.
- After 24 hours, measure the pH value and, if necessary, adjust to a value between 4.0–4.5 with citric acid.

### Characteristic data

- Appearance: off-white, medium viscous emulsion.
- Storage stability: 3 months at 40 °C.



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