

Shape Memory Cream

| Phase | I.N.C.I. name | Commercial name | % |
|-------|--|--|-----------|
| A | Aqua | — | Qs to 100 |
| | Acrylates/Beheneth-25 Methacrylate Copolymer, Aqua | Rheostyl™ 90N (Coatex Arkema Group) | 3.50 |
| | Acrylates Copolymer | Rheostyl™ 67N (Coatex Arkema Group) | 4.50 |
| B | Sodium Hydroxine, Aqua | Aqueous Solution NaOH 30% | 0.30 |
| C | Polysorbate 80 | Protasorb O-20 (Protameen Chemicals) | 1.00 |
| | Sorbitan Laurate | Kosteran-L/1 (KLK Oleo) | 2.00 |
| | C13-15 Alkane | Neossance® Hemisqualane | 1.00 |
| | Jojoba Esters | Floraesters® 20 (FloraTech) | 2.00 |
| | Caprylyl Methicone | Silsoft™ 034 (Momentive) | 3.00 |
| | Fragrance | — | 0.20 |
| D | Sodium Hydroxine, Aqua | Aqueous Solution NaOH 30% | 0.45 |
| E | o-Cymen-5-ol | SymOcide® C (Symrise) | 0.10 |
| | Pentylene Glycol | Hydrolite® 5 (Symrise) | 2.50 |
| | Nylon 6/12 | Orgasol® 4000 EXD NAT COS Caresse (Arkema) | 0.50 |
| | PTFE | Microslip®519 L (MPI) | 1.00 |
| F | Coffea Arabica Seed Extract, Glycerin, Aqua | Green Coffea Vita (Vitalab) | 0.01 |

Protocol

Phase A: Weigh the ingredients and add water. Place the mixture under stirring

Phase B: Neutralize phase A with the sodium solution

Phase C: Weigh all the ingredients and put under stirring. Add Phase C to Phase AB, and let under stirring for 10 minutes

Phase D: Add Phase D in order to continue the neutralization process. Adjust pH if necessary

Phase E: Weigh the o-Cymen-5-ol and add the Pentylene Glycol. Put under stirring. Once the mixture is homogeneous, add the other ingredients and homogenize. Add this phase to the rest of the formula

Phase F: Weigh the ingredient and add to the emulsion