

Quick absorbing sun cream

Sunscreen: Increase Viscosity, Increase Wash-off, Moisturization

Formulation 00172

ATTRIBUTES

- Increase Substantivity
- Quick Absorption
- Increase Viscosity
- Increase Wash-off
- Moisturization

DOW CORNING® PRODUCTS

- DOW CORNING® 5200 FORMULATION AID
- DOW CORNING® 556 FLUID
- DOW CORNING® AMS-C30 COSMETIC WAX

XIAMETER® PRODUCTS

- XIAMETER® PMX-0246 CYCLOHEXASILOXANE

Ingredient	Wt. %	Trade Name/Supplier
Phase A		
1. Lauryl PEG/PPG-18/18 Methicone	3	DOW CORNING® 5200 FORMULATION AID
2. C30-45 Alkyl Methicone (and) C30-45 Olefin	2	DOW CORNING® AMS-C30 COSMETIC WAX
3. Cyclohexasiloxane	6	XIAMETER® PMX-0246 CYCLOHEXASILOXANE
4. Phenyl Trimethicone	2	DOW CORNING® 556 FLUID
5. PPG-3 Myristyl Ether	10	Promyristyl PM-3 / Croda
6. Octyl Triazone	3	Uvinul T-150 / BASF Corporation
Phase B		
7. Diazolidinyl urea (and) iodopropyl butyl carbamate	0.2	Germall Plus / ISP
8. Sodium Chloride	2	Sodium Chloride / NOVEON / Lubrizol
9. Deionized Water	62.6	
Phase C		
10. Zinc Oxide (and) Dimethicone	5	Z-Cote HP-1 / BASF Corporation
11. Plant Extract	4	Mulberry Extract / Alban Muller International
12. Perfume (choice)	0.2	

Procedure

1. Mix ingredients 1 to 4.
2. Heat to 75°C.
3. Premix ingredients 5 and 6, heat to 75C and add to ingredients 1-4.
4. Mix ingredients of phase B together.
5. Check pH of water phase (5.5-6.5) and correct with citric acid.
6. Heat to 75°C with stirring.
7. Add phase B to phase A with mixing.
8. Add phase C ingredients in order listed.
9. Cool to room temperature with gentle mixing.

Variations

Alternative Dow Corning Products have not been tested as of this printing.

Stability

Stable for 9 months at room temperature and 9 months at 40°C.

External Reference Material

Static SPF 21.1. Post 80 minute water immersion SPF 18.50. Broad Spectrum Certificate. SPF tested according to current Australia/New Zealand standards.

Dow Corning® Application Patents

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