



Sun Protection Cream
Formulation FS401

This is a facial water-in-oil sunscreen. It offers an SPF 20 protection against UV rays as well as photo-aging protection following UVA exposure. Thyme extract provides an additional protection from photo-induced irritation and so this product is especially suited for sensitive skin. By using Silube J208-612 as the emulsifier the perfect amount of zinc oxide is dispersed in this elegant product.

<u>Phase</u>	<u>Ingredient</u>	<u>INCI Name</u>	<u>%w/w</u>
Part A	Deionized Water (+1% evap)	Aqua	53.80
	NaCl	Sodium Chloride	1.00
Part B	DUB 12 15 (Stearinerie Dubois Fils)	C12-15 Alkyl Benzoate	10.00
	Eutanol G (Cognis)	Octyldodecanol	10.00
	Uvinul A Plus B (BASF)	Ethylhexyl Methoxycinnamate	10.00
		Diethylamino Hydroxybenzoyl Hexyl Benzoate	
	Nomcort HK-G (Nisshin Oillio)	Glyceryl Behenate/Eicosadioate	3.00
	BHT	BHT	0.05
	Timo Estratto Liposolubile (L' Angelica))	Thymus Vulgaris Extract	1.00
	Silube J208-612 (Siltech)	Lauryl PEG-8 Dimethicone	6.00
Part C	Germaben II (Sutton)	Propylene Glycol Diazolidinyl Urea	1.00
		Methylparaben Propylparaben	
Part D	Noce di Cocco e Menta 441/AP 0308441/ap (M&M)	Parfum	0.15
Part E	Z-Cote (BASF)	Zinc Oxide	<u>5.00</u>
			<u>101.00</u>

Appearance: Creamy, white emulsion
 Viscosity: pH 10%: 5.0 – 6.3
 25°C – Brookfield RVT-Helipath C

Procedure:

1. In the main mixer melt B at 70-75°C, then add A to B under slow mixing.
2. After complete addition of the water phase, homogenize.
3. Cool to 40°C while mixing and add C and D.
4. Disperse E and cool to room temperature under vacuum.

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