

Sun Stick

Provides ultra protection against long-term skin damage and premature ageing caused by the sun. This lightweight formula absorbs quickly, leaving skin feeling soft and moisturised. The formulation contains **Floramac® 10** which is an excellent solvent for sunscreens and aids in the dispersion of Titanium Dioxide. **Floraesters® 70** can significantly increase stick strength compared to conventional waxes and emollients.

Trade Name	INCI Name	Function	%W/W	Supplier
1 Floviva Castor oil	Ricinus Communis (Castor) Seed Oil	Emollient	5	ProTec Botanica
2 Crodamol™ GTCC	Caprylic/capric triglyceride	Emollient	19	Croda
3 Floraesters® 70	Jjoba Esters	Structuring Wax	2	Floratech Via ProTec Ingredia
4 Seatons Candelilla Wax	Euphorbia Cerifera (Candelilla) Wax	Structuring Wax	5	Croda
5 White Ozokerite Wax Pastilles	Ozokerite	Structuring Wax	11	Strahl & Pitsch Inc
6 Seatons Beeswax	Cera Alba	Structuring Wax	2	Croda
7 Seatons Carnauba Wax	Copernicia Cerifera (Carnauba) Wax	Structuring Wax	4	Croda
8 Floralipids® Moringa Butter	Moringa Oil/Hydrogenated Moringa Oil Esters	Jjoba Emolliency	6	Floratech Via ProTec Ingredia
9 Floramac® 10	Ethyl Macadamiate	Dry Emollient	4	Floratech Via ProTec Ingredia
10 Crodamol ISIS	Isostearyl Isostearate	Emollient	5	Croda
11 Parsol®1789	Butyl Methoxydibenzoylmethane	Sunscreen	2	Adina
12 Parsol MCX	Ethylhexyl Methoxycinnamate	Sunscreen	7.5	Adina
13 Eusolex® 4360	Benzophenone-3	Sunscreen	5	Merck performance materials
14 Anhydrous Lanolin EP ELP 3%	Lanolin	Emollient	6	Just For Today Ltd
15 Suncroma Titanium Dioxide	Titanium Dioxide	Physical Sunscreen	2	SunChemical Via ProTec Ingredia
16 Crodamol™ GTCC (2)	Caprylic/capric triglyceride	Emollient	14	Croda
17 Hydrasalinol	salicornia herbacea	Active Ingredient	0.5	Codif Via ProTec Ingredia

ProTec Ingredia Ltd.

Unit 10 Delta Court, Manor Way, Borehamwood, Herts., WD6 1FJ, UK

Website: www.protecingredia.com

Registered in London No. 07517784 VAT No. GB 100 2120 14

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Method of Manufacture

Into the main vessel add:

Floviva Castor oil	Start the mixer on a moderate speed.
Crodamol™ GTCC	Mix until dispersed. Commence heating the main vessel 80C

When the main vessel is at 80C Into the main vessel add:

Floraesters® 70	Mix until dispersed.
Seatons Candelilla Wax	Mix until dispersed.
Ozokerite Wax Pastilles	Mix until dispersed.
Seatons Beeswax	Mix until dispersed.
Seatons Carnauba Wax	Mix until dispersed.
Floralipids® Moringa Butter	Mix until dispersed.
Floramac® 10	Mix until dispersed.
Crodamol ISIS	Mix until dispersed.
Parsol®1789	Mix until dispersed.
Parsol MCX	Mix until dispersed.
Lanolin	Mix until dispersed.
Eusolex® 4360	Mix until dispersed. Maintain the vessel at 80C.

Into a suitable sized premix add:

Crodamol™ GTCC(2)	
Suncroma Titanium Dioxide	Homogenise for 5 minutes or until a smooth homogenous premix is achieved.

Add the premix into the main vessel and mix until completely uniform and homogenous.

Commence cooling the main vessel to 65C

When the product is at 70C add the following:

Hydrasalinol	Mix until homogenous
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Continue to cool to 65C

When the product is at 65C pack into suitable stick packaging.

Product Specifications

pH	N\A
Viscosity	N\A
Colour	White
Appearance	White hard stick

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