

Luxscreen® Sun Cream (Cold Process)

Light W/O sun cream with soft, even application. Based on the Luxscreen® UV dispersions, where mineral UV filters and photostable lipids are encapsulated into a polymer structure. Luxscreens® give high SPF and UVA protection without risk of sedimentation. Due to the significantly lower density of the Luxscreen® dispersions, more stable SPF products with smooth skin feel can be created. Biomethics® Emulsifier has good skin compatibility as it does not disrupt skin's barrier. It is an ideal alternative for cold process emulsions and suits even delicate skin types. Creanatural® LAQ and Creabase® MSO are based on the non-oxydizing Meadowfoam Seed Oil. Rich in antioxidant, Meadowfoam Seed Oil is perfect for sun care application as it is a stable natural oil with skin care benefits. Alphaflow® is an hypoallergenic and photostable emollient. Dedraflow® 5 is also hypoallergenic and photostable emollient but volatile, and therefore it can be used as replacement to cyclomethicone. Siltext® works as texture enhance leaving matte, non-greasy skin feel. Creanatural® BioCollagen is natural film former with good moisture retention.

Ingredients	INCI Name	Qty%	Supplier
Phase A			
Biomethics® Emulsifier CPS W/O	Solanum Tuberosum (Potato) Starch (and) Squalane (and) Butyrospermum Parkii (Shea Butter) (and) Helianthus Annuus (Sunflower) Wax (and) Xanthan Gum (and) Hydrogenated Lecithin (and) Tocopherol (and) Phenoxyethanol	4,00	1)
Hectone® DF	Hydrogenated Polyisobutene (and) Disteardimonium Hectorite (and) Propylene Carbonate	14,00	1)
Creanatural® LAQ	Limnanthes Alba (Meadowfoam) Seed Oil (and) Squalane (and) Beta Sitosterol	3,00	1)
Creabase® MSO	Limnanthes Alba (Meadowfoam) Seed Oil (and) Cera Alba (and) Hydrogenated Meadowfoam Seed Oil	6,00	1)
	VP/Hexadecene Copolymer	3,00	
	Glyceryl Linoleate (and) Glyceryl Oleate (and) Glyceryl Linolenate	2,00	
	Tocopherol Acetate	1,00	
Alphaflow® 50	Hydrogenated Polydecene	4,00	1)
Dedraflow® 5	Hydrogenated Polyisobutene	4,00	1)
Siltext® Mat	Hydrogenated Polyisobutene (and) Dimethicone Crosspolymer	3,50	1)
Phase B			
	Water	q.s.	
	Glycerin	2,00	
	Methylisothiazolinone	0,50	
	Xanthan Gum	0,20	
Creanatural® BioCollagen	Water (and) Glycerine (and) Butylene Glycol (and) Zea Mays (Corn) Starch (and) Natto Gum (and) Methylparaben (and) Chlorphenesin	5,00	1)
	Hyaluronic Acid	0,02	
Phase C			
Luxscreen® TR22 AF50	Titanium Dioxide (and) Hydrogenated Polydecene (and) Styrene/Acrylates Copolymer	13,50	1)
Luxscreen® TR35 AF50	Titanium Dioxide (and) Hydrogenated Polydecene (and) Styrene/Acrylates Copolymer	8,00	1)

SPF in vitro : 40,4

UVA Ratio : 0,66

Star Category : ***

Critical Wavelength : 375nm

Procedure:

- Mix water and Biomethics® Emulsifier together until an even milk develops. Add the rest of the ingredients in phase A together under moderate agitation until homogenous.
- Mix ingredients in phase B together under moderate agitation until homogenous.
- Add phase B into phase A and under agitation (1000-1200rpm) for 15 minutes.
- Homogenize (6000rpm) the mixture (A+B) for 5 minutes.
- Add phase C into the mixture (A+B) and homogenize (6000rpm) for 2-3 minutes.

Suppliers: 1) CIT SARL/COSMO CHEM SARL

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