

Guide Formulation

Personal Care

BB (Blemish Balm) Cream (BB-1)

BB Cream is foundation for the modern era. This light emulsion not only gives coverage but also moisturises, leaving skin feeling silky smooth and non-greasy, thanks to the addition of SeraSilk® EL 60 (Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer).

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Water	To 100	-	Vehicle
Glycerin	5.00	Surfac G995V/Surfachem	Humectant
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.125	Carbopol Ultrez 20/Lubrizol	Thickener
Lithium Magnesium Sodium Silicate	0.35	Laponite® XLG/Azelis	Thickener
Isononyl Isononanoate	8.00	Lanol 99/Seppic	Emollient
Isohexadecane	4.00	Permethy1101A/Presperse Inc	Emollient
PEG-20 Methyl Glucose Sesquistearate	4.00	Glucamate SSE 20/Surfachem	Emulsifier
Methyl Glucose Sesquistearate	4.00	Glucate SS/Surfachem	Emulsifier
Isopropyl Palmitate	1.00	Isopropylpalmitate/Cognis	Emollient
Stearyl Alcohol	1.00	Crodacol S95/Croda	Bodifying Agent
Hydrogenated Polyisobutene	1.00	MC300 Sophim/Azelis	Emollient
CI 77492	0.27	Yellow Iron Oxide AS	Pigment
CI 77491	0.0725	Red Iron Oxide AS	Pigment
CI 77499	0.0375	Black Iron Oxide AS	Pigment
Titanium Dioxide	2.00	Titanium Dioxide/Azelis	Opacifier/Colourant
Octyldodecyl Olivat	4.00	Essachem O/ProTec Ingredia	Emollient
Potassium Hydroxide	0.25	Potassium Hydroxide 18%	pH Adjuster
Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Copolymer	4.00	SeraSilk® EL 60/KCC Beauty	Skin Feel
Phenoxyethanol (and) Methylisothiazolinone	0.60	Neolone PE/Dow	Preservative
Parfum	0.05	CPL Aromas	Fragrance

Typical Properties

Appearance:	Pale brown, viscous cream
Viscosity @ 25°C:	>350000cPs (Brookfield RVT, Sp7, 2.5rpm)
pH @ 25°C:	n/a

Method

Add water, glycerin and Carbopol to the main vessel, leave to swell for 5-10 minutes.

In a separate vessel add Isonoyl Isononate, Isohexadecane, Glucamate, Glucate, Isopropyl Palmitate, Crodacol, MC300, yellow, red and black iron oxides, Titanium Dioxide and Octyldodecyl Oliviate. Heat to 70-75°C with stirring. Once temperature has been reached, homogenise for 5 minutes to ensure the titanium dioxide and pigments are dispersed. Heat back to 70-75°C if required.

Once the Carbopol is swollen, homogenise until smooth and add the Laponite. Mix until smooth. Heat to 70-75°C. Add the oil phase to the water phase and homogenise for 2 minutes until smooth and uniform. Add the potassium hydroxide whilst homogenising and mix until smooth.

Remove from the homogeniser and begin to cool with stirring.

At around 50°C add the SeraSilk® EL 60 and mix well. If lumps remain, slowly homogenise.

At below 40°C add the preservative and fragrance and mix until uniform.

Check pH and adjust if necessary.



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Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

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