



MOISTURIZING & MATTIFYING FOUNDATION SPF 8 6754B

Formula

A	• Water	20.00 %
	• Butylene glycol	4.00 %
	• PEG-400	4.00 %
	• PECOSIL PS100 (<i>Dimethicone copolyol PEG-7 phosphate - PHOENIX</i>)	1.00 %
	• Sodium Hydroxyde	qs pH=9
	• Titanium dioxide	7.00 %
	• Talc	2.00 %
	• Iron oxyde yellow	0.80 %
	• Iron oxyde red	0.30 %
• Iron oxyde black	0.05 %	
B	• Isononyl isononanoate	8.00 %
	• Caprylic capric triglyceride	8.00 %
	• MONTANOV 202 (<i>Arachidyl alcohol and Behenyl alcohol and Arachidylglucoside - SEPPIC</i>)	5.00 %
C	• Water	QS 100%
	• MICROPEARL M305 (<i>Methylmethacrylate crosspolymer - SEPPIC</i>)	2.00 %
	• Tetrasodium EDTA	0.05 %
D	• Cyclomethicone	4.00 %
	• Xanthan gum	0.50 %
	• Magnesium aluminium silicate	1.00 %
E	• SEPICIDE HB (<i>Phenoxyethanol/Methylparaben/Ethylparaben /Propylparaben /Butylparaben - SEPPIC</i>)	0.50 %
	• SEPICIDE CI (<i>Imidazolidinyl urea - SEPPIC</i>)	0.30 %
	• Fragrance	0.20 %

Procedure

Blend the liquid components of A together then adjust the pH to 9 before introducing the pigments. Crush the pigment phase in a bead grinder (prepare excess to take loses into account).

Melt the waxy components in the oils at a temperature of 80-85°C (not more than 80-85°C) (B), then add D, keep the temperature at 80°C.

Heat water at 80°C and add the MICROPEARL, the EDTA and pigment paste (A), and keep the temperature at 80°C.

Add (B+D) to (A+C) , start emulsifying (rotor/stator turbine) when all the phases are incorporated.



Slowly continues mixing and cooling down. Add the components of E at approximately 30°C. Adjust the final pH if necessary.

Comments

MONTANOV 202 A plant-derived glycolipid with moisturizing activity. Provides emulsions with a light and evanescent feel, which are easy to spread and which penetrate rapidly leaving a soft but not greasy afterfeel on skin.

MICROPEARL M305 A powder which readily disperses in water. It confers a light and slightly powdery feel to foundation creams without drying the skin out. Increasing the concentrations of MICROPEARL M305 of 10 to 15% presents no problem. By suppressing specular reflection phenomena, MICROPEARL M305 imparts a matte finish to the formula.

PECOSIL PS100 Coemulsifier with an excellent dispersing power versus fillers.

Characteristics

Appearance	tinted cream
pH	7.5
Viscosity	about 40,000 BROOKFIELD LV 6rpm S4 cps
Stability	Stable at RT/40°C/ 50°C and after freeze-thaw cycles -5 / +40

Assessment

Control of a film on a bristol card : even dispersion is the proof that fillers and pigments are well dispersed.

Colour value Stable color over time (SEPPIC method 57C0041- Chromameter MINOLTA CR200)

Measurement after 1 week	L = 70.7, a= 20.2 , b= 25
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Measurement after 6 monthes	L = 69.2, a= 17.6 , b= 22
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Gloss value 2.6 (SEPPIC method 57C0042 - Reflectometer MICRO-TRIGLOSS 4520 - angle 60°)

Covering properties 94% (SEPPIC method 57C0043 - Chromameter MINOLTA CR200 -) film 120µm)

SPF - in vitro : 8 ± 1 (protocol SEPPIC 57C0033, vitro skin®, spectrophotometer LABSPHERE®)

Notes

PEG-400 : LUTROL E400 (BASF)

Iron oxyde yellow: SICOVIT yellow 10 E172 (BASF)

Iron oxyde red: SICOVIT red 30 E172 (BASF)

Iron oxyde black: SICOVIT (BASF)

Titanium dioxyde: Anatase titanium dioxyde USP (WHITTAKER)

Cyclomethicone: DC345 (DOW CORNING)

Xanthan gum: KELTROL T (KELCO)

Magnesium aluminium silicate : VEEGUM HV (ISP)

Talc: LUZENAC 000C (LUZENAC)

Fragrance: BEAUTY X010.494 (QUEST)

6754B - SEPPIC - A0011

Since this formula has not undergone toxicological analysis, the proposed use and handling of the products is for reference purposes only and SEPPIC accepts no liability for their use by any party.