



## Creamy Satin Lipstick

### Example Formulation\*

#### DESCRIPTION

An example of a creamy, plum-colored, satin lipstick is described. The formula balances structure and pay-off through a combination of various waxes and Ellamera BI-THIN 602 by Kraton to delivery a creamy satin texture to the lips.

#### PHYSICAL PROPERTIES

Appearance:	Stick
Color:	Plum
Odor:	Unscented
Solubility (in water):	Insoluble

\*The formulation above is intended for information purposes only based on the best of our knowledge. It is the responsibility of the customer to undertake the appropriate testing to determine the suitability of the product for their intended use.

## COMPOSITION

INCI	Wt %	TRADE NAME	FUNCTION
Octyldodecanol	20.45	Isofol 20 Alcohol	Solvent, emollient
Triheptanoin	20.00	SustOleo MCT	Solvent, emollient
Red 7 Lake (CI 15850) (and) Hydrogenated Rapeseed Oil (and) Heptyl Undecylenate	14.40	NWD-7722 Natural Wax Dispersion D&C Red 7 Ca Lake	Pigment
Synthetic Wax	9.00	Performa V 825 Polymer	Luster
Hydrogenated Styrene/ Isoprene Copolymer	8.00	Ellamera BI-THIN 602	Rheology modifier, oil thickener
Isopropyl Palmitate	7.00	Lexol IPP	Solvent, emollient
C20-C40 Alcohols	6.00	Performacol 425 Alcohol	Structurant
Palm Acid/Adipic Acid/ Pentaerythritol Crosspolymer	5.00	LexFeel Vibrant MB	Payoff
Blue 1 Lake (CI 42090) (and) Hydrogenated Rapeseed Oil (and) Heptyl Undecylenate	3.60	NWD-2125 Natural Wax Dispersion FD&C Blue 1 Al Lake	Pigment
Trilaurin	3.00	SustOleo TL	Solvent, emollient
Polyethylene	3.00	Permalene 400 Polyethylene	Structurant
Tocopheryl Acetate	0.50	dl- $\alpha$ -Tocopheryl Acetate	Antioxidant
Ascorbyl Palmitate	0.05	Ascorbyl Palmitate	Antioxidant

\* ISO FOL is a trademark of Sasol; SUSTOLEO, LEXOL, and LEXFEEL are trademarks of Inolex; PERFORMA V, PERFORMACOL, and PERFORMALENE are trademarks of NuCera; Natural Wax Dispersion pigments were supplied by Univar Solutions/Sun Chemical; Tocopheryl Acetate and Ascorbyl Palmitate were supplied by Univar Solutions/DSM.

## EQUIPMENT

- Laboratory mixer, top stirring
- Heating plate
- Lipstick mold

## PREPARATION

### **PHASE A**

SustOleo MCT	20.00
Lexol IPP	7.00
Isofol 20 Alcohol	20.45
SustOleo TL	3.00
Ellamera BI-THIN 602	8.00

### **PHASE C**

NWD-7722 Natural Wax	14.40
Dispersion D&C Red 7 Ca Lake	
NWD-2125 Natural Wax	3.60
Dispersion FD&C Blue 1 Al Lake	

### **PHASE B**

Permalene 400 Polyethylene	3.00
Permacol 425 Alcohol	6.00
Performa V 825 Polymer	9.00
LexFeel Vibrant MB	5.00

### **PHASE D**

dl- $\alpha$ -Tocopheryl Acetate	0.50
Ascorbyl Palmitate	0.05

- Combine emollients of Phase A. Begin mixing while heating to 40°C.
- At 40°C (once SustOleo TL has dissolved), add Ellamera polymer with mixing; continue heating to 95-100°C to dissolve the polymer.
- Once polymer has dissolved, add Phase B solids to Phase A with mixing. Return mixture to 95°C to retain good melt mixture.
- Add pigment dispersions (Phase C) to A+B with mixing. Return mixture to 95°C to retain good melt mixture.
- Add antioxidants (phase D) to A+B+C with mixing at 92-95°C. Mix 2 minutes.
- Pour into lipstick molds. Chill for thirty minutes and package cold into lipstick tubes.

## PREPARATION NOTES

- A dispersion blade (or cowles blade) improved dispersion and increased rate of dissolution of the Ellamera polymer in Phase A.
- Deaeration may not be necessary if a moderate mixing speed ( $\leq 400$  rpm) can be achieved with sufficiently large batch size where air is not entrained during mixing. Deaeration was achieved on lab-scale batches by resting 10 min in an 110°C oven before molding.

## PACKAGING

The example formulation for a lipstick requires lipstick tubes sized to the lipstick mold.

## SAFETY NOTES

- Always be attentive when using mechanical equipment
- Manage all the ingredients with correct PPE in accordance with safety guidelines
- It is always better to cover the vessel during mixing.
- Review the safety data sheets for all the ingredients prior to formulating.

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### FOR FURTHER INFORMATION

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