

Starting point formulation – Sun care stick – blue buddy sun stick

This non-whitening sun stick glides on smoothly, creating a gentle blue protective shield for active kids. The combination of **RHEOBYK-7590 PC** and **PURABYK-P 5541 SATIN** ensures excellent stabilization while delivering the ideal balance of stick hardness and pay-off.

Formulation

Position	Component	INCI	Supplier	Function	Dosage (%)
A	KAHLWAX 2227 Megaveggie	Oryza Sativa Bran Cera, Hydrogenated Coconut Oil, Hydroxystearic Acid	KAHL	Consistency providing agent	2.00
	KAHLWAX 6607 WOA Sunflower	Helianthus Annuus Seed Cera	KAHL	Consistency providing agent	6.00
	KAHLWAX 6290 Berry	Rhus Verniciflua Peel Cera	KAHL	Consistency providing agent	2.80
	Lanette O	Cetearyl Alcohol	BASF	Consistency providing agent	8.20
	Myritol 318	Caprylic/Capric Triglyceride	BASF	Emollient	28.00
	Castor Oil	Ricinus Communis Seed oil	Gustav Heess	Emollient	15.40
B	PURABYK-P 5541 SATIN	Bentonite	BYK	Binder	12.00
	RHEOBYK-7590 PC	Trihydroxystearin	BYK	Consistency providing agent, stabilizer	2.50
C	ZinClear XP	Zinc Oxide	Advance ZincTeK Ltd, Antaria	UV filter	22.50
	UNIPURE BLUE LC621 Aloe	CI 42090 (Blue 1 Lake), Cocos Nucifera (Coconut) Oil, Aloe Barbadensis Leaf	Sensient	Colorant	0.40
D	Cosphaderm T-70 NON GMO ECO	Tocopherol, Helianthus Annuus Seed Oil	Cosphatec	Antioxidant	0.20
Total					100.00

Instructions (manufacturing procedure)

- Combine phase A ingredients and RHEOBYK-7590 PC under stirring and melt at 85 °C.
- Add PURABYK-P 5541 SATIN, ZinClear XP and the pigment below 75 °C and stir until homogeneous.
- Add phase D, cool by mixing to 65–70 °C and finally fill into molds.

Characteristic data

- Appearance: blue sun care stick.
- Storage stability: 3 months at 40 °C.

RHEOBYK-7590 PC is a rheology additive based on a castor oil derivative and suitable for natural formulations.

PURABYK-P 5541 SATIN is a natural bentonite providing binding properties.



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