

# FORMULATION EXAMPLE

## S 22-22 Metallic Hair Wax Platinum Crush

### Ingredients

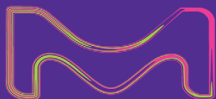
	INCI US	[%]
<b>A</b>		
<b>Timiron® Super Sheen MP-1001</b>	(1) MICA (AND) TITANIUM DIOXIDE	<b>25.00</b>
<b>Colorona® Patina Silver</b>	(1) MICA (AND) IRON OXIDES (AND) TITANIUM DIOXIDE	<b>2.50</b>
<b>Colorona® Dark Blue</b>	(1) MICA (AND) TITANIUM DIOXIDE (AND) FERRIC FERROCYANIDE	<b>1.00</b>
<b>Xirona® Le Rouge</b>	(1) IRON OXIDES (AND) SILICA	<b>0.60</b>
<b>B1</b>		
Water, demineralized	WATER	ad 100
1,2-Propanediol	(1) PROPYLENE GLYCOL	1.80
Natrosol 250 HHR	(2) HYDROXYETHYLCELLULOSE	0.50
PVP K-30	(3) PVP	0.75
<b>B2</b>		
Preservative	PRESERVATIVE	q.s.
<b>C</b>		
Xiameter® PMX-200 Silicone Fluid (100cs)	(4) DIMETHICONE	15.00
Wax white	(1) CERA ALBA (BEESWAX)	5.00
Antaron™ V-216	(3) PVP/HEXADECENE COPOLYMER	3.00
KF-6028	(5) PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE	1.00
<b>D</b>		
Belsil® CM 1000 Gum Blend	(6) CYCLOPENTASILOXANE (AND) DIMETHICONOL	15.00

### Procedure:

Add Natrosol 250 HHR and 1,2-Propanediol in the water of phase B and stir until homogeneous. Add PVP K-30 and stir until homogeneous and heat phase B1 to 60°C while stirring and add phase B2. Heat phase B1/B2 to 80°C while stirring. Prepare and heat phase C to 80°C while stirring. Add slowly phase B1/B2 to phase C while vigorous stirring and homogenize, keep Temperature at 75-80°C. Cool down to 55-60°C while appropriate stirring, add slowly phase D and stir until homogeneous. Add slowly phase A and stir until homogeneous. Fill the bulk directly into suitable packaging.

### Notes:

The bright metallic silver color of this hair wax is provided by mixing Timiron® Super Sheen MP-1001, Colorona® Patina Silver, Colorona® Dark Blue and Xirona® Le Rouge effect pigments. When applied on the hair, the sparkling platinum-like effect creates a sophisticated look. The product can be applied on the hair with hands.



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## Suppliers:

(1) Merck KGaA, Darmstadt, Germany / EMD Electronics

(3) Ashland Industries Europe GmbH

(5) DKSH GmbH

(2) Aqualon GmbH

(4) Univar GmbH

(6) Wacker Chemie AG

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