

Prototype Formulation for Durable Polish

Auto Care Formulation Information

Automotive Cream Wax for Professional Detailing

Formulation reference: PW-305

Description

This colored, automotive cream wax was created and balanced with *Dow Corning*[®] brand silicone fluids resulting in a high-gloss, durable, and easy-to-apply wax. In addition, this product exhibits cleaning and high-wetting properties, leaving a soft film on a metallic surface. *Dow Corning*[®] 531 Fluid adds long-lasting protection to the wax film. XIAMETER[®] OFS-1546 Silane is added to fix the pigment on the metallic surface. This wax is appropriate for professionals.



AV09029

Ingredient	Weight %	Trade Name/Supplier
1. Water	62	
2. Xanthan gum	0.3	<i>Keltrol</i> [®] F/CP Kelco
3. Stearic acid	2	
4. Hallstar PEG 6000 DS	1	Hallstar
5. Sodium hydroxide @ 50%	0.4	
6. Kerosene	15	
7. Carnuba wax emulsion @ 35%	4	
8. XIAMETER [®] PMX-200 Silicone Fluid, 100 cSt	4	Dow Corning Corp.
9. XIAMETER [®] PMX-200 Silicone Fluid, 1,000 cSt	2	Dow Corning Corp.
10. <i>Dow Corning</i> 531 Fluid	1	Dow Corning Corp.
11. XIAMETER OFS-1546 Silane	1	Dow Corning Corp.
12. <i>Kaopolite</i> [®] 1152	5.5	Kaopolite, Inc.
13. Pigment	0.1	
14. Titanium dioxide	1.6	
15. <i>Kathon</i> [™] LX	0.1	Rohm & Haas Co.

Procedure

- 1) Place ingredient 1 in a vessel.
- 2) Add ingredient 2 to the main vessel at room temperature and stir until uniform.
- 3) Add ingredients 3 and 4 and heat to 65°C to reach the melting point.
- 4) Add ingredient 5 under agitation and cool to 35°C.
- 5) Add ingredient 6 and stir for 10 minutes.

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- 6) Add ingredients 7–11 under agitation in the listed order one at a time until uniform.
- 7) Add ingredients 12–14 under agitation until uniform.
- 8) Add ingredient 15 and stir for 10 minutes.

Typical Properties/Additional Information

This formulation was developed with the purpose to cover scratches on metallic surfaces.

Directions: For good results, apply the product in circles. Do one section at a time. When haze appears, buff with a soft and clean cloth or cotton. If paste-like consistency is required, the xanthan gum can be replaced with the acrylic polymer *Carbopol*® 941 from Lubrizol (Noveon division).

See Auto Care Raw Material Supplier Reference Sheet (Form No. 26-1064) for the role of the raw material and supplier information.

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Contact Information

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