



Consumer Solutions

Prototype Formulation for Interior Protection

Auto Care Formulation Information

Leather Care

Formulation reference: IP-540

Description

This gel product uses a combination of materials to keep leather supple by replacing lost natural oils. The silicone wax helps to protect the leather, while the silicone fluid aids during application.



Ingredient	Weight (%)	Trade Name/Supplier
Phase A		
1. DOWSIL™ 2-5088 Wax	2.0	The Dow Chemical Co.
2. Syncrowax ERL	2.0	Croda Ltd.
3. Syncrowax AWI	2.0	Croda Ltd.
4. Lanolin	2.0	Croda Ltd.
5. Volpo L4	2.5	Croda Ltd.
6. XIAMETER™ PMX-200 Silicone Fluid, 350 cSt	1.0	The Dow Chemical Co.
7. Pine Oil	1.0	
8. Triethanolamine	0.5	
Phase B		
9. Water	37.0	
Phase C		
10. Acrylic thickener (2%) solution	15.0	Lubrizol
11. Water	30.0	
12. Isopropanol	5.0	

Procedure

1. Mix phase A ingredients in the main vessel and heat to 70°C.
2. Heat phase B ingredient to 70°C and add to phase A under high shear.
3. Prepare a solution of acrylic thickener and water, and add this to the main vessel.
4. Add isopropanol and mix for 5 minutes under high shear, then use low-speed mixer.

Typical Properties/Additional Information

This is a Croda-derived formulation.

Suggestions for adjusting the formulation:

- To increase the gloss/color: Replace XIAMETER™ PMX-200 Silicone Fluid, 350 cSt with XIAMETER™ PMX-200 Silicone Fluid, 1,000 cSt
- To reduce the gloss: Replace XIAMETER™ PMX-200 Silicone Fluid, 350 cSt with XIAMETER™ PMX-200 Silicone Fluid, 100 cSt
- To improve water repellency: Replace XIAMETER™ PMX-200 Silicone Fluid, 350 cSt, with DOWSIL™ 2-9118 Fluid
- To achieve a drier film: Replace XIAMETER™ PMX-200 Silicone Fluid, 350 cSt with DOWSIL™ 593 Fluid or DOWSIL™ 3527 Release Agent or DOWSIL™ 2-9118 Fluid

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

Learn More

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