

Consumer Solutions

# Prototype Formulation for Car Polish

Auto Care Formulation Information

**Paintable Polish**

Formulation reference: PP-930



**Description**

This paintable polish is specifically formulated for use in garages and body shops where polydimethylsiloxanes could give rise to recoatability problems.

Ingredient	Weight (%)	Trade Name/Supplier
<b>Phase A</b>		
1. Low aromatic solvent 160/190°C	30.0	Exxon Chemicals Ltd./ Shell Chemicals Ltd.
2. Paraffin wax	0.5	Suter & Co Ltd.
3. DOWSIL™ 2-5088 Wax	3.0	The Dow Chemical Co.
4. Span 80	0.4	Croda/Uniqema
5. XIAMETER™ OFX-0203 Fluid	0.5	The Dow Chemical Co.
<b>Phase B</b>		
6. Water	50.6	
7. SILLITIN Z.86	5.0	Hoffmann Minerals
8. Alcan SF7	7.0	Alcan Chemicals
9. TWEEN 80	1.1	Croda/Uniqema
<b>Phase C</b>		
10. Cellulose thickener	0.9	Hercules Ltd.

**Procedure**

1. Heat ingredients 1-3 to 70°C in an auxiliary vessel to dissolve the wax with low-speed stirring.
2. Add ingredients 4 and 5.
3. In the main vessel, mix Phase B ingredients while heating to 70°C.
4. Add Phase A to Phase B with high shear, then start to cool.
5. Add Phase C ingredient under low shear.

**Typical Properties/Additional Information**

Suggestions for adjusting the formulation:

- To improve ease of use: Increase XIAMETER™ OFX-0203 Fluid to 1.0%
- To improve durability: Increase DOWSIL™ 2-5088 Wax to 4.0%
- Alcan SF7 can be replaced by other aluminum trihydroxides such as Almatix Hydral 710

