

# Prototype Formulation for Low-VOC Polish

## Auto Care Formulation Information

### Low-VOC Polish

Formulation reference: PW-400

### Description

This polish is a detergent-resistant cleaner designed for automotive surfaces. The product exhibits little phase separation and provides easy rub-out, excellent gloss, very good durability and resistance to detergent washings.

Solvent was replaced with a VOC-exempt silicone solvent, XIAMETER® PMX-0245 Cyclopentasiloxane, to target a VOC level of 14% for this formula as defined by California A.R.B.

This formula passes five cycles of freeze/thaw stability testing.



AV09029

Ingredient	Weight %	Trade Name/Supplier
<b>Phase A</b>		
DI water	59.0	
<i>Kaopolite</i> ® XDA	6.6	Kaopolite, Inc.
<i>Kaopolite</i> ® 1152	3.4	Kaopolite, Inc.
<i>Amadol</i> ® (Witcamide) WE	1.0	Akzo Nobel
Kerosene/mineral spirits	3.5	
XIAMETER PMX-0245 Cyclopentasiloxane (VOC-exempt)	11	Dow Corning Corp.
Sodium chloride	1.0	
<b>Phase B</b>		
Kerosene/mineral spirits	7.24	
<i>Bentone</i> ® 38 Thickener	0.6	Rheox, Inc.
<b>Phase C</b>		
<i>Dow Corning</i> ® 531 Fluid	5.5	Dow Corning Corp.
XIAMETER® OFX-0536 Fluid	1.0	Dow Corning Corp.
Isopropanol	.15	

### Procedure

- 1) Load phase A ingredients in the order shown into a vessel and mix well.
- 2) Mix phase B ingredients in a separate container.
- 3) Add phase B to the production vessel and mix well.
- 4) Add phase C ingredients to the production vessel and mix well.

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Visit [dowcorning.com/autocare](http://dowcorning.com/autocare) for additional information.

## Typical Properties/Additional Information

After phase A mixing => material forms a thick paste emulsion

After phase B mixing => material is a similar thick paste emulsion

After phase C mixing => alcohols activate *Bentone 38* Thickener.

Polish continues to thicken over several days.

Ensure high-flow (turnover) mixing exists to prevent the abrasive from settling at the vessel bottom. If agitation is stopped on the mixing vessel during phase A or phase B, *Kaopolite XDA* Abrasive will settle to the bottom.

Observe precautions for handling Dow Corning products as indicated on the safety data sheets.

See Auto Care Raw Material Supplier Reference Sheet (Form No. 26-1064-01) for the role of the raw material and supplier information.

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## Contact Information

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