

# Prototype Formulation for Durable Polish

## Auto Care Formulation Information

### Detergent-Resistant Cleaner Paste Polish

Formulation reference: PW-308

### Description

This formulation is for a detergent-resistant cleaner paste polish designed for automotive surfaces. This formulation provides exceptional application ease and rub-out, as well as excellent gloss, due to the use of a silicone emulsifier with the resin/dimethyl fluid blend. The use of volatile silicones improves wet-out as well as the application ease of the material. The presence of the amine-functional material and the resin/dimethyl fluid blend provides excellent durability and resistance to multiple detergent washings.



AV09029

Ingredient	Weight %	Trade Name/Supplier
<b>Phase A</b>		
XIAMETER® PMX-0345	12.5	Dow Corning Corp.
Cyclosiloxane Blend		
Dow Corning® 3225C	7.5	Dow Corning Corp.
Formulation Aid		
<b>Phase B</b>		
Dow Corning® 2-1912 Fluid	3.0	Dow Corning Corp.
XIAMETER®		
OFX-0536 Fluid	1.0	Dow Corning Corp.
<b>Phase C</b>		
Water	58.0	
Kaopolite® SF	15.0	Kaopolite, Inc.
<b>Phase D</b>		
Tween® 20	1.0	Croda/Uniqema
<b>Phase E</b>		
50% solution of sodium citrate in water	2.0	

### Procedure

- 1) Place phases A and B into a mixing vessel. Start agitation. Mix until uniform.
- 2) Separately blend phase C and add it to the top of the vessel with turbulent mixing.
- 3) Add phases D and E.
- 4) Upon complete addition, begin high-shear mixing.

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

5) Continue high-shear mixing until the desired consistency is achieved. Package.

### Typical Properties/Additional Information

- 1) The order of addition is critical. Ensure the water phase is added to the top of the oil phase prior to high-shear mixing or emulsion may not invert, yielding a low-viscosity, unstable final product.
- 2) The homogenization step may increase product viscosity and improve consistency and stability.
- 3) An alternative solvent may be considered.
- 4) A reduced level of the polishing agent (*Kaopolite*<sup>®</sup> SF) may be desirable for clear coat finishes and may improve application ease and rub-out.

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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