

# Prototype Formulation for Durable Polish

## Auto Care Formulation Information

### Durable, High-Gloss Paste Polish

Formulation reference: PW-307



AV09029

### Description

This formulation is for a detergent-resistant cleaner paste polish, designed for automotive surfaces. This formulation provides a product with improved application ease and rub-out, as well as excellent gloss, due to the use of a silicone emulsifier. The product also exhibits very good durability and resistance to multiple detergent washings.

Ingredient	Weight %	Trade Name/Supplier
<b>Phase A</b>		
Odorless mineral spirits	9.5	
Dow Corning® 3225C Formulation Aid	7.5	Dow Corning Corp.
<b>Phase B</b>		
XIAMETER®		
OFX-0536 Fluid	1.0	Dow Corning Corp.
Dow Corning® 531 Fluid	6.0	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-speed mixing with a shear blade.
- 5) Continue shearing the product until the desired consistency is achieved. Package.

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## Typical Properties/Additional Information

- 1) The order of addition is critical. Ensure the water phase is added to the top of the oil phase under turbulent mixing followed by shearing. Variations to this procedure may yield a thin, unstable product because the emulsion may not invert to a water-in-oil form.
- 2) The use of a high-shear homogenizer may improve product consistency and stability.
- 3) Many alternative solvents to mineral spirits are acceptable.
- 4) A reduced level of the polishing agent (*Kaopolite*<sup>®</sup> SF) may be desirable for use on clearcoat 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

[dowcorning.com/ContactUs](http://dowcorning.com/ContactUs)

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