

# Prototype Formulation for Interior Protection

## Auto Care Formulation Information

### Multi-Surface Medium Shine Dressing

Formulation reference: IP-580



AV08305

XIAMETER MEM-0349 Emulsion and MEM-0346 Emulsion are 60% polydimethyl-siloxane emulsions with nonionic surfactants.

### Description

This formulation is a water-based protectant that is California A.R.B. compliant. The formula provides gloss to interior dashboards, plastic, rubber, interior leather, and tire surfaces. The thickener provides vertical cling when the formula is sprayed.

Ingredient	Weight %	Trade Name/Supplier
<b>Phase A</b>		
Water	30-40	
XIAMETER®	34	Dow Corning Corp.
MEM-0349 Emulsion or XIAMETER®		
MEM-0346 Emulsion		
Acrylic thickener:		
Alcogum® L-12 or	1.5	Alco Chemical
Acusol® 820	1.0	Rohm & Haas Co.
Preservative	q.s.	The Dow Chemical Co. or Rohm & Haas Co.
<b>Phase B</b>		
Additional water to total 63% water	33-23	
Triethanolamine	1.4	Various

### Procedure

Use a mixer that gives adequate turnover flow at the sides of the bottom of the container.

- 1) Load enough water to reach the effective mixing zone of the container.
- 2) Add the remaining phase A ingredients and mix until uniformly dispersed (minimum 20 minutes).
- 3) Premix phase B ingredients and then add to phase A.
- 4) Mix until thickener is fully activated (minimum 20 minutes).
- 5) Check the formula pH and verify it is in the correct range.

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## Additional Information to Optimize Formula

First, adjust the targeted amount of triethanolamine to obtain a final pH of 8.0–9.5 to correctly activate the thickener. This compensates for variations in the source water pH. If desired, adjust the level of acrylic thickener to modify the formula viscosity for best performance with your spray bottle.

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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