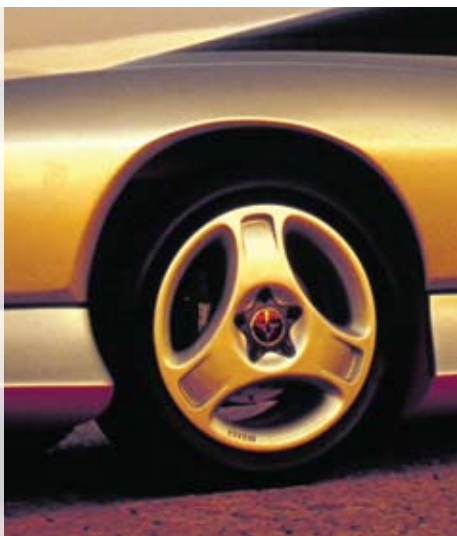


Prototype Formulation for Tire Care

Auto Care Formulation Information

Multi-Surface Medium-Shine Dressing

Formulation reference: IP-580



AV09029

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

Description

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

Ingredient	Weight %	Trade Name/Supplier
Phase A		
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.
Phase 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) Use enough phase A water to reach the effective mixing zone of the container.
- 2) Add rest of the phase A ingredients and mix until uniformly dispersed (minimum 20 minutes).
- 3) Premix the phase B ingredients and then add to phase A.
- 4) Mix until thickener is fully activated (minimum 20 minutes).
- 5) Check the formula pH to 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 variation in source water pH. If desired, adjust the level of acrylic thickener to modify the formula viscosity for the 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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