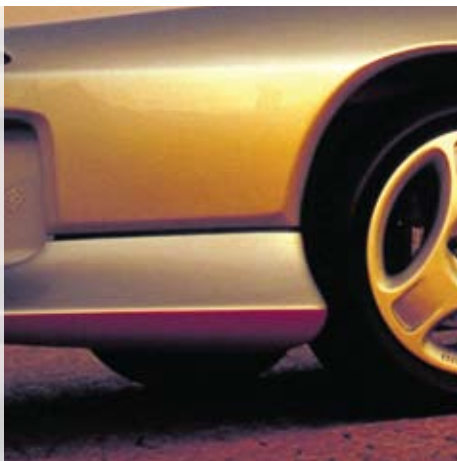


Prototype Formulation for Exterior Trim Protection

Auto Care Formulation Information

Premium Protectant Lotion (Low Odor)

Formulation reference: IP-590



AV09029

XIAMETER MEM-1171 Emulsion is a 50% polydimethylsiloxane emulsion with nonionic surfactants.

Description

This formula is a water-based protectant lotion that is California A.R.B. compliant. XIAMETER® MEM-1171 Emulsion provides high gloss to interior dashboards, plastic, rubber, interior leather and tire surfaces and is low odor when applied to surfaces. An easy-to-disperse thickener that maintains low odor was selected to create this lotion.

Ingredient	Weight %	Trade Name/Supplier
Phase A		
DI or soft water	45	
<i>Carbopol</i> ® EZ-2	.70	Lubrizol/Noveon
Phase B		
Preservative	q.s.	The Dow Chemical Co. or Rohm & Haas Co.
XIAMETER MEM-1171 Emulsion	30	Dow Corning Corp.
Separate Phase C (Premix) Target pH = 8.0–9.0		
DI water	24	
20% sodium hydroxide solution	q.s. ¹	

¹Start with 0.010%

Procedure

Use a mixer with multiple impellers to give high turnover flow at sides and bottom of container.

- 1) Use enough phase A water to reach the effective mixing zone of the vessel.
- 2) Add *Carbopol* EZ-2 thickener and disperse under moderate shear (minimum 20 minutes).
- 3) Add phase B ingredients and mix under moderate shear (minimum 20 minutes). A large increase in thickness will occur.
- 4) Put phase C DI water in a separate container for the phase C premix.
- 5) Add 20% sodium hydroxide solution to achieve a pH of 8.0–9.0 for phase C as measured by a digital pH meter.
- 6) Add phase C to the formula and continue mixing (minimum of 20 minutes). Lotion will thin during this step.

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Visit dowcorning.com/autocare for additional information.

Typical Properties/Additional Information

DI water or softened water is recommended for this formula. Adjust the amount of 20% sodium hydroxide solution to achieve the target pH. The amount of thickener can be adjusted to modify the formula from a thin lotion to a thick gel if desired.

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

xiameter.com

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