

Prototype Formulation for Interior Protection

Auto Care Formulation Information

Premium Protectant Lotion (Low Odor)

Formulation reference: IP-590



AV08983

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

Description

This formulation 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 division)
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 the sides and bottom of the container.

- 1) Load enough water to reach the effective mixing zone of the container.
- 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) In a separate container, load DI water 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.

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6) Add phase C to formula and continue mixing (minimum of 20 minutes). Lotion will thin during this step.

Additional Information to Optimize Formula

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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