

Prototype Formulation for Leather Conditioner

Auto Care Formulation Information

Leather Conditioner Lotion

Formulation reference: IP-600

Description

This creamy lotion for conditioning leather provides a high shine during initial application, then slowly transforms to a medium shine that feels dry. *Dow Corning*[®] 2-5088 Wax thickens the formula and provides a dry protective film to the leather. *Dow Corning*[®] 5200 Formulation Aid is an excellent emulsifier for economical formulas with a high water content where the oil phase is the continuous phase of the emulsion. The formula VOC content is less than 0.5 wt % and contains natural lanolin oil for conditioning.



AV08983

Ingredient	Weight %	Trade Name/Supplier
Water Phase		
DI water	72.0	
Sodium chloride	1.0	
Oil Phase		
<i>Isopar</i> [™] M (isoparaffin) (VOC-exempt)	17.0	Exxon Chemicals Ltd. or equivalent
XIAMETER [®] PMX-0245	2.0	Dow Corning Corp.
Cyclopentasiloxane		
Lanolin oil	2.0	Various
White mineral oil	1.0	Various
<i>Dow Corning</i> 5200 Formulation Aid (emulsifier)	3.0	Dow Corning Corp.
<i>Dow Corning</i> 2-5088 Wax	2.0	Dow Corning Corp.

Procedure

- 1) In a separate container suitable for heating, add all oil phase ingredients in the order shown.
- 2) Heat the oil phase slowly to 72°C in a closed container to melt the wax (for example, in a large oven).
- 3) Load hot DI water at 60°C into the mixing vessel.
- 4) Add sodium chloride and dissolve.
- 5) Ensure the mixing vessel equipment and water phase are between 60–65°C.
- 6) Add the hot oil phase (72°C) to the mixing vessel and mix.

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- 7) Allow the formula to begin cooling under moderate shear.
- 8) When the liquid cools below 55°C, the material will change to an “oil out” emulsion and will thicken dramatically.
- 9) Continue to mix until the formula has cooled below 40°C.

Typical Properties/Additional Information

Sodium chloride is a freeze-thaw stabilizer.

XIAMETER PMX-0245 Cyclopentasiloxane promotes good spreading of all actives.

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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