



Consumer Solutions

Prototype Formulation for Tire Care

Auto Care Formulation Information

Spray and Wipe Low-Cost Tire Dressing

Formulation reference: TP-770

Description

This formulation is a “spray and wipe” tire dressing that is California A.R.B. compliant and low in cost. Wiping after application to the tires is necessary to improve the uniformity of shine and to prevent residue on the floor. The blend of XIAMETER™ PMX-200 Silicone Fluid, 1,000 cSt, and 10,000 cSt gives high shine.



Ingredient	Weight (%)	Trade Name/ Supplier
Phase A		
1. VOC-exempt aliphatic hydrocarbon solvent (isoparaffin)	70	CPChem Soltrol 220 or Exxon Isopar M
2. XIAMETER™ PMX-200 Silicone Fluid, 1,000 cSt	5	The Dow Chemical Co.
3. XIAMETER™ PMX-200 Silicone Fluid, 10,000 cSt	20	The Dow Chemical Co.
Phase B		
4. VOC-exempt aliphatic hydrocarbon solvent (isoparaffin)	5	CPChem Soltrol 220 or Exxon Isopar M

Procedure

Place the Phase A ingredients in the order shown into a mixing vessel. Use a mixing impeller with adequate turnover flow at the bottom of the container. Rinse the load lines and any additional containers with the Phase B ingredient while adding it to the mixing vessel.

Typical Properties/Additional Information

The VOC-exempt isoparaffin solvent is very slow to dry compared to volatile methylsiloxane fluids from Dow. Wipe the tire after treatment to avoid dripping and residue on the floor.

Formulation Performance Review

Results:

- Streaky appearance while drying
- Streaks and drips at the tire bottom while drying
- Low level of color enhancement and gloss compared to TP-750 or TP-760

Formula was sprayed on the tire surface with no wiping.



Untreated tire



15 minutes
after application



30 minutes
after application



Dried appearance

See Auto Care Raw Material Supplier Reference Sheet (Form No. 26-1064) for the role of the raw material and supplier information.

Learn More

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