

Prototype Formulation for Solvent-Free Polish

Auto Care Formulation Information

Solvent-Free Polish

Formulation reference: PW-385



AV09029

Description

This formulation incorporates a range of silicone emulsions of fluid/amino/wax to provide properties that were achievable historically with solvent-based technologies.

Ingredient	Weight %	Trade Name/Supplier
1. Water	25.0	
2. <i>Bio-soft</i> ® N1-7	0.5	Stepan Co.
3. XIAMETER® PMX-0246 Cyclohexasiloxane	5.0	Dow Corning Corp.
4. Water	52.1	
5. XIAMETER® MEM-0349 Emulsion or XIAMETER® MEM-0346 Emulsion	1.0	Dow Corning Corp.
6. <i>Dow Corning</i> ® 2-8035 Emulsion	1.6	Dow Corning Corp.
7. Wax emulsion	4.5	<i>Michem</i> ® Lube 155/ Michelman Inc.
8. Hydroxyethyl Cellulose Thickener	0.8	Hercules - Aqualon
9. Celite Super Floss	7.5	Celite Corporation
10. <i>Alcan</i> ® SF7	3.5	Alcan Inc.

Procedure

- 1) Mix ingredients 1–4 in an appropriate vessel under high shear.
- 2) Add ingredients 5–7 to the vessel with high shear.
- 3) Slowly add ingredient 8 while mixing. Continue to mix for 30 minutes, or until the thickener is dissolved and the product is uniform.
- 4) Add ingredients 9 and 10 to the above, continuing to mix for an additional 10 minutes.

Typical Properties/Additional Information

Suggestions for adjusting the formulation:

- To improve gloss: Incorporate XIAMETER® MEM-1665 Emulsion at 0.5%; reduce XIAMETER MEM-0349 Emulsion or MEM-0346 Emulsion to 0.5%

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- To improve durability: Increase *Dow Corning* 2-8035 Emulsion to 2.0% and the wax emulsion to 5.1%

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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