

Prototype Formulation for Polymer Sealant

Auto Care Formulation Information

Pre-Softened Polymer Sealant Paste

Formulation reference: PW-375



AV09029

Description

This formulation gives good detergent resistance by incorporation of amino-functional silicones and wax, while the fluid aids application characteristics.

Ingredient	Weight %	Trade Name/Supplier
Phase A		
1. Low aromatic solvent 160/190°C	10.0	Exxsol D40/Exxon Chemical Co.
2. Low aromatic solvent 200/250°C	12.0	Exxsol D80/Exxon Chemical Co.
3. Carnauba wax	3.0	
4. XIAMETER® OFX-0536 Fluid	2.0	Dow Corning Corp.
5. <i>Dow Corning</i> ® 531 Fluid	3.0	Dow Corning Corp.
6. XIAMETER® PMX-200 Silicone Fluid, 350 cSt	0.8	Dow Corning Corp.
Phase B		
7. Water	54.5	
8. <i>Alcan</i> ® SF7	8.0	Alcan Inc.
9. Celite Super Floss	4.2	Celite Corp.
10. <i>Bio-soft</i> ® N1-7	1.5	Stepan Co.
11. Hydroxyethyl cellulose thickener	1.0	Hercules - Aqualon

Procedure

- 1) Place ingredients 1–3 into an appropriate vessel and heat to 45°C with low-shear mixing. Maintain the temperature at 40–45°C and add ingredients 4–6.
- 2) In the main vessel, add ingredients 7–9 and mix with low shear until dispersed while heating to 50°C.
- 3) Add ingredients 10 and 11 under low shear. Mix until all ingredients are dispersed, approximately 45 minutes.
- 4) Add phase A to phase B under high shear. Cool to filling temperature.

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Typical Properties/Additional Information

Suggestions for adjusting the formulation:

- To improve gloss: Incorporate 0.5–1.0% XIAMETER® PMX-200 Silicone Fluid, 1,000 cSt
- To improve ease of use: Increase level of XIAMETER PMX-200 Silicone Fluid, 350 cSt, to 1.5%.
- To improve color intensity: Incorporate 0.2–0.5% XIAMETER® PMX-200 Silicone Fluid, 12,500 cSt
- To improve gloss, ease of use, and color: Incorporate XIAMETER PMX-200 Silicone Fluid, 350 cSt; XIAMETER PMX-200 Silicone Fluid, 1,000 cSt; and XIAMETER PMX-200 Silicone Fluid, 12,500 cSt in a ratio of 3:1:1 at 1% total level

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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