

Prototype Formulation for Shampoo

Auto Care Formulation Information

Protective Shampoo

Formulation reference: CW-120



AV09029

Description

This formulation produces a product that is an intermediate between a standard shampoo and a polish that enhances gloss and provides a longer-lasting protective silicone film. The product can be applied the same as normal shampoos, or it can be poured directly onto a water-soaked sponge and wiped over a surface.

Ingredient	Weight %	Trade Name/Supplier
Phase A		
1. Water	60.0	
2. Crodamet® T8	1.0	Croda Ltd
Phase B		
3. Low aromatic solvent 160/190°C	30.0	Exxon Chemicals Ltd. Shell Chemicals Ltd.
4. Dow Corning® 2-5088 Wax	1.5	Dow Corning Corp.
5. XIAMETER® PMX-200 Silicone Fluid, 350 cSt	1.0	Dow Corning Corp.
6. Pine oil	1.0	
7. XIAMETER® OFX-8630 Fluid	2.5	Dow Corning Corp.
Phase C		
8. Cellulose thickener	0.8	Hercules-Aqualon

Procedure

- 1) Add ingredient 2 to ingredient 1 with low-speed stirring in the main vessel, heating to 70°C.
- 2) In phase B, add ingredients 3 and 4 to an auxiliary vessel, heat to 70°C, and add ingredients 5–7 with low-speed stirring.
- 3) Add phase B to phase A with high shear. Start cooling.
- 4) Add the phase C ingredient slowly and mix until dissolved.

Typical Properties/Additional Information

Suggestion for adjusting the formulation:

- To improve color: Incorporate XIAMETER® PMX-200 Silicone Fluid, 12,500 cSt, at 0.5%

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- To improve gloss: Substitute XIAMETER® PMX-200 Silicone Fluid, 1,000 cSt, for XIAMETER PMX-200 Silicone Fluid, 350 cSt
- To improve durability: Reduce the level of XIAMETER PMX-200 Silicone Fluid, 350 cSt, to 0.6% and the emulsifier level to 0.8%

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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