

Prototype Formulation for Shampoo

Auto Care Formulation Information

Protective Shampoo

Formulation reference: CW-102



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. <i>Bio-soft</i> ® NI-7	1.0	Stepan Co.
3. <i>Dow Corning</i> ® 2-8035 Emulsion	2.5	Dow Corning Corp.
Phase B		
4. Low aromatic solvent 160/190°	30.0	Exxsol D40/Exxon Chemicals Ltd.
5. Carnuba wax	1.5	
6. XIAMETER® PMX-200 Silicone Fluid, 350 cSt	1.0	Dow Corning Corp.
7. Pine oil	1.0	
Phase C		
8. Hydroxyethyl cellulose thickener	0.8	Hercules-Aqualon

Procedure

- 1) Put phase A ingredients into the main vessel. Heat to 70°C with low-shear mixing.
- 2) In a separate vessel, load ingredients 4 and 5. Heat to 70°C, then add ingredients 6 and 7 while mixing at low shear.
- 3) Add phase B to phase A with high shear. Start cooling to room temperature.
- 4) Add the phase C ingredient slowly and mix until dissolved, approximately 45 minutes.

... continued on back

Typical Properties/Additional Information

Suggestion for adjusting the formulation:

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

Two Brands to Serve You

In addition to the *Dow Corning*® brand specialty materials and services showcased in this document, Dow Corning Corporation offers over 2,100 standard silicone products under its XIAMETER® brand, backed by the same quality and supply you've come to expect from Dow Corning. Visit xiameter.com to learn more about additional silicone options available from XIAMETER brand.

Contact Information

dowcorning.com/ContactUs

xiameter.com

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Dow Corning is a registered trademark of Dow Corning Corporation.

We help you invent the future is a trademark of Dow Corning Corporation.

XIAMETER is a registered trademark of Dow Corning Corporation.

All other trademarks or trade names are the property of their respective owners.

©2008, 2009 Dow Corning Corporation. All rights reserved.

Printed in USA

AGP9907

Form No. 26-1636A-01

DOW CORNING

We help you invent the future.™