

Technical Data

Everlube[®] 9800

Protective Coatings

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description	
Everlube 9800 is a thermally cured, low VOC protective coating with a high molecular weight organic binder system. This coating is designed to provide excellent corrosion resistance in a wide variety of environments and may also be used as a primer. Everlube 9800 also offers exceptional chemical and abrasion resistance while meeting all of the current and proposed low VOC regulations. For a water based coating, this product is very user friendly.	
Features / Benefits	
<ul style="list-style-type: none">• Excellent corrosion resistance• Excellent chemical resistance	<ul style="list-style-type: none">• Excellent abrasion resistance• Good color flexibility
Markets	Typical Applications
<ul style="list-style-type: none">• Semiconductor• Industrial Machinery• Fabricated Metal Parts• Chemical Processing	<ul style="list-style-type: none">• Valve Bodies and other components• Bolts, nuts, and studs (Primer only)• Actuator screw threads (Primer only)• Pump assemblies
Physical Properties	
Lubricating Solids:	N/A
Binder:	High Molecular Weight Polymer
Color and Appearance:*	Satin Black Finish
Carrier:	Water borne
Solids (by weight):*	33.5% to 35.5%
Density:*	8.8 ± 0.5 lb/gal (1054 ± 60 grams/liter)
Flash Point:	>200°F (>93°C)
Volatile Organic Compound:	320 grams/liter (2.67 lb/gal)
Theoretical Coverage: ¹	930 ft ² /gal @ 0.5 mils (22.7 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	Everslik 1201 is the solvent based alternative to Everlube 9800
Processing Information	
Dry Film Thickness	0.3 to 2 mils (8 to 51 microns)
Dilution/Cleanup Solvent:	N/A - May be thinned with Deionized Water less than 10% by volume
Dilution Ratio:	Concentrate to 10% by volume
Cure Cycle:	1 hr. @ 325 °F - 350°F (part temperature)
Suggested Pretreatment:	Grit Blast and/or Phosphate
Suggested application Methods:	Dip spin / Spray
For additional information, please see Processing Bulletin #3001	

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B-117	> 1300 hr.
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Excellent
Coefficient of Friction	ASTM D-2714	N/A
Operating Temperature Range		-100°F to 400°F (-73°C to 204°C)
Load Carrying Capacity	ASTM 2625, Method B	N/A
Wear Life	ASTM 2625, Method A	M/A

Chemical Resistance (ASTM D-2510, Method C)

Isopropyl Alcohol or Ethyl Alcohol	Pass	Diethanolamine	Pass
Mineral Spirits or Paint Thinner	Pass	Hydrochloric Acid (10%)	Pass
Toluene	Pass	Sodium Hydroxide (10%)	Pass
Acetone	Pass	Distilled Water	Pass
Skydrol 500	N/R	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass	Cleaning Compounds, Mil-C-372	Pass
1, 1, 1 Trichloroethane, Mil-T-81533	Pass	Freon TF, Mil-C-81302	Pass
Reagent Water	Pass	Sea Water	Pass
Synthetic Hydraulic Fluids, Mil-H-83282	Pass	Synthetic Lube Oil, Mil-L-23699	Pass
Silicone Damping Fluids, VV-D-1078	Pass	Lubricating Oil, Mil-L-14107	Pass
Lubricating Oil, Mil-L-46000	Pass	Lubricant/Cleaner, Mil-L-63460	Pass

Note: Chemical resistance may vary depending on the cur cycle N/R = Not Recommended

Additional InformationShelf Life and Storage:

One year from date of shipment, stored in a factory sealed container between the temperatures, 40°F to 100°F. Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above

Packaging: Everlube 9800 is available in gallon, quart, and 5-gallon pail

Warranty:

No representation or warranty is expressed or implied and all warranties including warranties of marketability and fitness for use are expressly disclaimed. Nothing herein shall be construed as permission or recommendation to practice a patented invention without a license.

* These tests are performed on each production lot

¹ Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.7 microns).

Issue Date: 12/10/02, Latest Revision Date: 10/16/03