



**Protective & Marine Coatings**  
PRODUCT DATA SHEET



# SHER-LOXANE® 800

## TWO COMPONENT POLYSILOXANE

Revised: March 19, 2019

### PRODUCT DESCRIPTION

**SHER-LOXANE 800** is a versatile, high performance, two component polysiloxane (epoxy siloxane hybrid) that combines the properties of both a high performance epoxy and a polyurethane.

### INTENDED USES

- Recommended for use on new construction, repair and field maintenance coating projects. It provides effective long-term corrosion control and weatherability.
- Can be applied directly over inorganic zincs
- <100 g/L VOC, no isocyanates

### PRODUCT DATA

<b>Finish:</b>	Gloss
<b>Colors:</b>	Wide range of colors available
<b>Volume Solids:</b>	90% ± 3%, mixed
<b>VOC (EPA Method 24):</b>	<100 g/L; 0.77 lb/gal
<b>Mix Ratio:</b>	4:1 by volume
<b>Typical Thickness:</b>	
<b>Recommended Spreading Rate per coat:</b>	
	<b>Minimum      Maximum</b>
<b>Wet mils (microns)</b>	<b>5.0 (125)      7.0 (175)</b>
<b>Dry mils (microns)</b>	<b>4.0 (100)      6.0 (150)</b>
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>240 (6.0)      360 (9.0)</b>
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1443 (35.4)</b>
<i>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</i>	
<b>Shelf Life:</b>	12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
<b>Flash Point:</b>	Part A: >200°F (93°C), PMCC Part B: 145°F (63°C), PMCC
<b>Reducer:</b>	Not required (MEK or Oxsol 100)
<b>Clean Up:</b>	MEK, MIBK, MAK, Oxsol 100
<b>Weight:</b>	10.90 ± 0.2 lb/gal ; 1.3 Kg/L, mixed May vary by color

#### Average Drying Times @ 5.0 mils wet (125 microns):

	40°F (4.5°C)	77°F (25°C)	90°F (32°C)
	50% RH	50% RH	50% RH
<b>Touch:</b>	8 hours	2 hours	1.5 hours
<b>Handle:</b>	21 hours	6 hours	4 hours
<b>Recoat:</b>			
<b>minimum:</b>	16 hours	3 hours	1.5 hours
<b>maximum:</b>	1 year	1 year	1 year
<b>Cure to service:</b>	7-8 days	7 days	3 days
<b>Pot Life*:</b>		4 hours	
<b>Sweat-in-time:</b>		none required	

\*Pot life is dependent upon temperature and mass

*If maximum recoat time is exceeded, abrade surface before recoating.  
Drying time is temperature, humidity, and film thickness dependent.*

#### Packaging:

- 1.25 gallons (4.7L) mixed
  - Part A:** 1 gallon (3.8L) in a 1 gallon (3.8L) container
  - Part B:** 1 quart (0.9L) container
- 5 gallons (18.9L) mixed
  - Part A:** 4 gallons (15.1L) in a 5 gallon (18.9L) container
  - Part B:** 1 gallon (3.78L) container

### SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

#### Minimum recommended surface preparation:

- Iron & Steel:** Atmospheric: SSPC-SP6/NACE 3/ ISO8501-1:2007 Sa 2, 2-3 mil profile (50-75 microns)
- Concrete & Masonry:** Atmospheric: SSPC-SP13/NACE 6 - 4.3.1 or 4.3.2 or ICRI No. 310.2R CSP 2-3
- Galvanized:** Sweep blast to SSPC SP-16 with a blast profile of 1.5-3 mils (40-75 microns)



**Protective & Marine Coatings**  
PRODUCT DATA SHEET



# SHER-LOXANE® 800

## TWO COMPONENT POLYSILOXANE

APPLICATION	APPLICATION CONDITIONS																																																																											
<p><b>Airless Spray</b>            Pump.....35:1 minimum            Pressure.....2000 psi minimum (137 bar)            Tip .....0.015"-0.019" (0.38-0.48 mm)</p> <p><b>Conventional Spray</b>            Gun .....Binks 95            Fluid Nozzle .....67            Air Nozzle.....667            Atomization Pressure.....60 psi (4 bar)            Fluid Pressure.....20 psi (0.7 bar)</p> <p><b>Plural Component Spray</b>            Consult your SW sales or technical service representative</p> <p><b>Brush</b>            Brush.....Natural Bristle            Note: Required film thickness may not be achieved in one coat</p> <p><b>Roller</b>            Cover .....3/8" woven with solvent resistant core</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>	<p><b>Temperature (air, surface, material):</b>            40°F (4.5°C) minimum, 120°F (49°C) maximum            At least 5°F (2.8°C) above dew point</p> <p>Relative humidity: 40-85% recommended  <i>Note: &lt;40% RH will increase dry times; &gt;85% will decrease dry times</i></p>																																																																											
	APPROVALS																																																																											
	<ul style="list-style-type: none"> <li>Meets USDA requirement for incidental contact</li> <li>Two coats of Sher-Loxane 800 @ 100 microns per coat applied direct-to-metal is in full accordance with the requirements of ISO 12944-6 (1998), Corrosivity Category C3 High.</li> </ul>																																																																											
	ADDITIONAL NOTES																																																																											
	<p>Tint 150% tint strength with Maxitoner Colorants only into Part A. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.</p> <p>Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.</p> <p>Do not mix previously catalyzed material with new.</p>																																																																											
RECOMMENDED SYSTEMS																																																																												
<table border="0"> <thead> <tr> <th>Dry Film Thickness / ct.</th> <th>Mils</th> <th>(Microns)</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Steel, Inorganic Zinc/Polysiloxane Topcoat, Atmospheric</b></td> </tr> <tr> <td>1 Ct. Zinc Clad II (85)</td> <td>2.0-4.0</td> <td>(50-100)</td> </tr> <tr> <td>1 Ct.** Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> <tr> <td colspan="3">**Use a mist coat/full coat technique. Up to 10% MEK or 5% Oxsol 100 reduction is recommended.</td> </tr> <tr> <td colspan="3"><b>Steel, Organic Zinc/Polysiloxane, Atmospheric</b></td> </tr> <tr> <td>1 Ct. Zinc Clad IV (85)</td> <td>3.0-5.0</td> <td>(75-125)</td> </tr> <tr> <td>1 Ct. Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> <tr> <td colspan="3"><b>Steel, Atmospheric</b></td> </tr> <tr> <td>1*-2 Cts. Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> <tr> <td colspan="3">*One coat acceptable in light industrial environments</td> </tr> <tr> <td colspan="3"><b>Steel, Atmospheric</b></td> </tr> <tr> <td>1 Ct. Macropoxy 267</td> <td>5.0</td> <td>(125)</td> </tr> <tr> <td>1 Ct. Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> <tr> <td colspan="3"><b>Steel, Atmospheric</b></td> </tr> <tr> <td>1 Ct. Macropoxy 646</td> <td>5.0-10.0</td> <td>(125-250)</td> </tr> <tr> <td>1 Ct. Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> <tr> <td colspan="3"><b>Steel, Inorganic Zinc/Epoxy/Polysiloxane, Atmospheric</b></td> </tr> <tr> <td>1 Ct. Zinc Clad II (85)</td> <td>2.0-4.0</td> <td>(50-100)</td> </tr> <tr> <td>1 Ct. Macropoxy 646</td> <td>5.0-10.0</td> <td>(125-250)</td> </tr> <tr> <td>1 Ct. Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> <tr> <td colspan="3"><b>Steel, Epoxy/Epoxy/Polysiloxane, Atmospheric</b></td> </tr> <tr> <td>1 Ct. Macropoxy 646</td> <td>5.0-10.0</td> <td>(125-250)</td> </tr> <tr> <td>1 Ct. Macropoxy 646</td> <td>5.0-10.0</td> <td>(125-250)</td> </tr> <tr> <td>1 Ct. Sher-Loxane 800</td> <td>4.0-6.0</td> <td>(100-150)</td> </tr> </tbody> </table> <p>The systems listed above are representative of the product's use, other systems may be appropriate.</p>	Dry Film Thickness / ct.	Mils	(Microns)	<b>Steel, Inorganic Zinc/Polysiloxane Topcoat, Atmospheric</b>			1 Ct. Zinc Clad II (85)	2.0-4.0	(50-100)	1 Ct.** Sher-Loxane 800	4.0-6.0	(100-150)	**Use a mist coat/full coat technique. Up to 10% MEK or 5% Oxsol 100 reduction is recommended.			<b>Steel, Organic Zinc/Polysiloxane, Atmospheric</b>			1 Ct. Zinc Clad IV (85)	3.0-5.0	(75-125)	1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)	<b>Steel, Atmospheric</b>			1*-2 Cts. Sher-Loxane 800	4.0-6.0	(100-150)	*One coat acceptable in light industrial environments			<b>Steel, Atmospheric</b>			1 Ct. Macropoxy 267	5.0	(125)	1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)	<b>Steel, Atmospheric</b>			1 Ct. Macropoxy 646	5.0-10.0	(125-250)	1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)	<b>Steel, Inorganic Zinc/Epoxy/Polysiloxane, Atmospheric</b>			1 Ct. Zinc Clad II (85)	2.0-4.0	(50-100)	1 Ct. Macropoxy 646	5.0-10.0	(125-250)	1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)	<b>Steel, Epoxy/Epoxy/Polysiloxane, Atmospheric</b>			1 Ct. Macropoxy 646	5.0-10.0	(125-250)	1 Ct. Macropoxy 646	5.0-10.0	(125-250)	1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)	
Dry Film Thickness / ct.	Mils	(Microns)																																																																										
<b>Steel, Inorganic Zinc/Polysiloxane Topcoat, Atmospheric</b>																																																																												
1 Ct. Zinc Clad II (85)	2.0-4.0	(50-100)																																																																										
1 Ct.** Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
**Use a mist coat/full coat technique. Up to 10% MEK or 5% Oxsol 100 reduction is recommended.																																																																												
<b>Steel, Organic Zinc/Polysiloxane, Atmospheric</b>																																																																												
1 Ct. Zinc Clad IV (85)	3.0-5.0	(75-125)																																																																										
1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
<b>Steel, Atmospheric</b>																																																																												
1*-2 Cts. Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
*One coat acceptable in light industrial environments																																																																												
<b>Steel, Atmospheric</b>																																																																												
1 Ct. Macropoxy 267	5.0	(125)																																																																										
1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
<b>Steel, Atmospheric</b>																																																																												
1 Ct. Macropoxy 646	5.0-10.0	(125-250)																																																																										
1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
<b>Steel, Inorganic Zinc/Epoxy/Polysiloxane, Atmospheric</b>																																																																												
1 Ct. Zinc Clad II (85)	2.0-4.0	(50-100)																																																																										
1 Ct. Macropoxy 646	5.0-10.0	(125-250)																																																																										
1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
<b>Steel, Epoxy/Epoxy/Polysiloxane, Atmospheric</b>																																																																												
1 Ct. Macropoxy 646	5.0-10.0	(125-250)																																																																										
1 Ct. Macropoxy 646	5.0-10.0	(125-250)																																																																										
1 Ct. Sher-Loxane 800	4.0-6.0	(100-150)																																																																										
	HEALTH AND SAFETY																																																																											
	<p>Refer to the SDS sheet before use.            Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>																																																																											
	WARRANTY																																																																											
	<p>The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.</p>																																																																											
	DISCLAIMER																																																																											
	<p>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.</p>																																																																											