



Protective & Marine Coatings
PRODUCT DATA SHEET



SHER-LOXANE® 800

TWO COMPONENT POLYSILOXANE

Revised: August 24, 2023

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
- Can be used in immersion service - Fresh/Raw, Salt, Tap/Non-PW water types ONLY (not intended to be used as a lining)
- <100 g/L VOC, no isocyanates
- 20°F (-5°C) cure

PRODUCT DATA

<p>Finish: Gloss and Semi-Gloss</p> <p>Colors: Wide range of colors available</p> <p>Volume Solids: 90% ± 3%, mixed</p> <p>VOC: <100 g/L; 0.77 lb/gal (EPA Method 24) 12gms/kilo*</p> <p>*content by weight from formulation, to satisfy EC Solvent Emissions Directive</p> <p>Mix Ratio: 4:1 by volume</p> <p>Typical Thickness:</p> <p style="text-align: center;">Recommended Spreading Rate per coat:</p> <table border="1"> <thead> <tr> <th></th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Wet mils (microns)</td> <td>5.0 (125)</td> <td>7.0 (175)</td> </tr> <tr> <td>Dry mils (microns)</td> <td>4.0 (100)</td> <td>6.0 (150)</td> </tr> <tr> <td>~Coverage sq ft/gal (m²/L)</td> <td>240 (6.0)</td> <td>360 (9.0)</td> </tr> <tr> <td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td> <td colspan="2">1443 (35.4)</td> </tr> </tbody> </table> <p><i>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</i></p> <p>Shelf Life: Part A, Gloss: 12 months, unopened Part A, Semi-Gloss: 24 months, unopened Part B: 36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)</p> <p>Flash Point: Standard: 145°F (63°C), PMCC or SETA, mixed Fast Cure: 154°F (68°C), PMCC or SETA, mixed</p> <p>Reducer: MEK or Oxsol 100, up to 10% by volume</p> <p>Clean Up**: use Oxsol 100 or High Solids Compliant Thinner #1 - Fast</p> <p>Weight: 11.22 ± 0.2 lb/gal ; 1.3 Kg/L, mixed may vary by color</p> <p>**see Additional Notes section on next page for more information</p>		Minimum	Maximum	Wet mils (microns)	5.0 (125)	7.0 (175)	Dry mils (microns)	4.0 (100)	6.0 (150)	~Coverage sq ft/gal (m²/L)	240 (6.0)	360 (9.0)	Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	1443 (35.4)		<p>Average Drying Times @ 5.0 mils wet (125 microns): <i>with Standard Hardener:</i></p> <table border="1"> <thead> <tr> <th></th> <th>77°F (25°C)</th> <th>100°F (40°C)</th> <th>120°F (50°C)</th> </tr> </thead> <tbody> <tr> <td></td> <td>50% RH</td> <td>50% RH</td> <td>50% RH</td> </tr> <tr> <td>Touch:</td> <td>3 hours</td> <td>2.5 hours</td> <td>2 hours</td> </tr> <tr> <td>Handle:</td> <td>6 hours</td> <td>5 hours</td> <td>4 hours</td> </tr> <tr> <td>Recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> minimum:</td> <td>7 hours</td> <td>6 hours</td> <td>5 hours</td> </tr> <tr> <td> maximum:</td> <td>1 year</td> <td>1 year</td> <td>1 year</td> </tr> <tr> <td>Full Cure:</td> <td>7 days</td> <td>4 days</td> <td>3 days</td> </tr> <tr> <td>Pot Life*:</td> <td>4 hours¹ 2 hours²</td> <td>4 hours¹ 1.5 hours²</td> <td>3 hours¹ 1.5 hours²</td> </tr> <tr> <td>Sweat-in-time:</td> <td colspan="3">none required</td> </tr> </tbody> </table> <p><i>with Fast Cure Hardener:</i></p> <table border="1"> <thead> <tr> <th></th> <th>20°F (-5°C)</th> <th>50°F (10°C)</th> <th>77°F (25°C)</th> </tr> </thead> <tbody> <tr> <td></td> <td>10% RH</td> <td>40% RH</td> <td>50% RH</td> </tr> <tr> <td>Touch:</td> <td>12 hours</td> <td>3 hours</td> <td>1 hour</td> </tr> <tr> <td>Handle:</td> <td>75 hours</td> <td>7 hours¹ 6 hours²</td> <td>2 hours</td> </tr> <tr> <td>Recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> minimum:</td> <td>24 hours</td> <td>9 hours</td> <td>4 hours</td> </tr> <tr> <td> maximum:</td> <td>1 year</td> <td>1 year</td> <td>1 year</td> </tr> <tr> <td>Full Cure:</td> <td>14 days</td> <td>7 days</td> <td>7 days</td> </tr> <tr> <td>Pot Life*:</td> <td>8 hours</td> <td>4 hours¹ 2 hours²</td> <td>4 hours¹ 2 hours²</td> </tr> <tr> <td>Sweat-in-time:</td> <td colspan="3">none required</td> </tr> </tbody> </table> <p>*Pot life is dependent upon paint temperature and mixed volume <i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i></p> <p>¹Gloss ²Semi-Gloss</p>		77°F (25°C)	100°F (40°C)	120°F (50°C)		50% RH	50% RH	50% RH	Touch:	3 hours	2.5 hours	2 hours	Handle:	6 hours	5 hours	4 hours	Recoat:				minimum:	7 hours	6 hours	5 hours	maximum:	1 year	1 year	1 year	Full Cure:	7 days	4 days	3 days	Pot Life*:	4 hours ¹ 2 hours ²	4 hours ¹ 1.5 hours ²	3 hours ¹ 1.5 hours ²	Sweat-in-time:	none required				20°F (-5°C)	50°F (10°C)	77°F (25°C)		10% RH	40% RH	50% RH	Touch:	12 hours	3 hours	1 hour	Handle:	75 hours	7 hours ¹ 6 hours ²	2 hours	Recoat:				minimum:	24 hours	9 hours	4 hours	maximum:	1 year	1 year	1 year	Full Cure:	14 days	7 days	7 days	Pot Life*:	8 hours	4 hours ¹ 2 hours ²	4 hours ¹ 2 hours ²	Sweat-in-time:	none required		
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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)
Immersion*: SSPC-SP10/NACE 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 1-2
Immersion*: SSPC-SP13/NACE 6 - 4.3.1 or 4.3.2 or ICRI No. 310.2R CSP 2-3

*Approved for use in Fresh/Raw, Salt, and Tap/Non-PW water types ONLY. Not intended to be used as a lining.



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APPLICATION	APPLICATION CONDITIONS
<p>Airless Spray Pump.....35:1 minimum Pressure.....2000 psi minimum (137 bar) Tip......015"-.019" (0.38-0.48 mm)</p> <p>Conventional Spray Gun.....Binks 95 Fluid Nozzle.....67 Air Nozzle.....667 Atomization Pressure.....60 psi (4 bar) Fluid Pressure.....20 psi (0.7 bar)</p> <p>Plural Component Spray Consult your SW sales or technical service representative</p> <p>Brush Brush.....Natural Bristle Note: Required film thickness may not be achieved in one coat</p> <p>Roller 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>Recommended Temperature (air, surface, material):</p> <p>with Standard Hardener*: 50°F (10°C) minimum (50-85% RH) 120°F (50°C) maximum</p> <p>with Fast Cure Hardener: 20°F (-5°C) minimum (10-50% RH) 77°F (25°C) maximum At least 5°F (2.8°C) above dew point</p> <p>*Below 77°F (25°C), for the semi-gloss sheen ONLY, you may see up to a week delay in low sheen achievability.</p> <p>NOTE: The curing mechanism of Sherloxane 800 is driven by primarily temperature, but it is also affected by relative humidity. In making a choice of which curing agent to use, temperature is the overriding factor. For example, at low humidities (<50% RH) and above 77°F (25°C), the standard hardener should be used to give the most useable pot life for application, but the drying times may be slower than those stated on the PDS. Consult your Sherwin-Williams representative for more details.</p>
RECOMMENDED SYSTEMS	
<p>Approved Primers:</p> <p>Steel, Atmospheric 1 Ct. Zinc Clad II (85) 1 Ct. Zinc Clad II IV (85) 2 Cts. Sher-Loxane 800 1 Ct. Macropoxy 267 *1-2 Cts. Macropoxy 646</p> <p>Steel, Atmospheric, Immersion** *1-2 Cts. Macropoxy 646</p> <p>Concrete, Atmospheric, Immersion** 1-2 Cts. Macropoxy 646</p> <p>*Approved intermediate over Zinc Clad II (85) or self **Approved for use in Fresh/Raw, Salt, and Tap/Non-PW water types ONLY. Not intended to be used as a lining.</p>	<p>APPROVALS</p> <ul style="list-style-type: none"> • Meets USDA requirement for incidental contact • Two coats of Sher-Loxane 800 @ 120 microns (4.7 mils) dft per coat applied direct-to-metal is in full accordance with the requirements of ISO 12944-6 (2018), C5M • Approved topcoat for NEPCOAT Systems C and D • Performance equivalent to AWWA D102 OCS #5 & 6 finish coat
<p>HEALTH AND SAFETY</p> <p>Refer to the SDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>	<p>ADDITIONAL NOTES</p> <p>Tint Guidance: For Atmospheric Service: 150% tint strength with Maxitoner/GIS colorants only into Part A. Do not exceed 15 oz/gal. For Immersion Service*: Tint pastel colors into white tint base only (B80W0501). Do not exceed 3 oz/gal. 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> <p>Part B is moisture sensitive. Do not tint. Only open when ready to be catalyzed immediately.</p> <p>Clean Up: VOC Restricted Areas (≤25 g/L, or ≤3%): use Oxsol 100 or High Solids Compliant Thinner #1 - Fast. Other areas (>25 g/L, or >3%): use Oxsol 100, High Solids Compliant Thinner #1 - Fast, MEK, MIBK, or MAK. Choose a solvent that is compliant in your area. Confirm compliance with state and local air quality rules before use.</p> <p>*Approved for use in Fresh/Raw, Salt, and Tap/Non-PW water types ONLY. Not intended to be used as a lining.</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>	