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

- Replaces a two coat epoxy/polyurethane system
- No isocyanates
- High-gloss, self-priming coating
- High solids, <100 g/L VOC
- Long term color and gloss performance
- Corrosion and chemical splash and spill resistant
- Outstanding application properties

**Product Characteristics**

**Finish:** Gloss

**Color:** Wide range of colors available

**Volume Solids:** 90.0% ± 3% mixed, may vary by color

**Weight Solids:** 93.2% ± 2% mixed, may vary by color

**VOC (EPA Method 24):** <100 g/L; 0.77 lb/gal mixed

**Mix Ratio:** 4:1 by volume

**Recommended Spreading Rate per coat:**

<table>
<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>
</tbody>
</table>

**NOTE:** Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

**Drying Schedule @ 5.0 mils wet (125 microns):**

<table>
<thead>
<tr>
<th></th>
<th>@ 40°F/4.5°C</th>
<th>@ 77°F/25°C</th>
<th>@ 90°F/32°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% RH</td>
<td>8 hours</td>
<td>2 hours</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>50% RH</td>
<td>21 hours</td>
<td>6 hours</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

To recoat:

- **minimum:** 16 hours 3 hours 1.5 hours
- **maximum:** 90 days 90 days 90 days

To cure: 7-8 days 7 days 3 days

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

**Pot Life:** 4 hours

**Sweat-in-Time:** None Required

**Product Description**

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

- Replaces a two coat epoxy/polyurethane system
- No isocyanates
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- Long term color and gloss performance
- Corrosion and chemical splash and spill resistant
- Outstanding application properties

**Recommended Uses**

Recommended for use on new construction, repair and field maintenance coating projects. It provides effective long-term corrosion control and weatherability.

- Structural steel
- Bridges
- Marine decks, topsides, superstructures, barges
- Industrial power plants
- Pulp & paper
- Rail car exteriors
- Piping
- Tanks
- Complies with SSPC Paint 36

Can be applied directly over inorganic zins

**Performance Characteristics**

**Substrate:** Steel

**Surface Preparation:** SSPC-SP10, 2-3 mil profile

**System Tested:**
- 1 ct. Macropoxy 646 @ 8.0 - 10.0 mils (200 - 250 microns)
- 1 ct. Sher-Loxane 800 @ 4.0 - 6.0 mils (100 - 150 microns)

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load</td>
<td>119 mg loss</td>
</tr>
<tr>
<td>Adhesion</td>
<td>ASTM D4541</td>
<td>3494 psi (Cohesive fail)</td>
</tr>
<tr>
<td>Direct Impact Resistance</td>
<td>ASTM D2794</td>
<td>56 in-lbs</td>
</tr>
<tr>
<td>Flexibility</td>
<td>ASTM D522, 180° bend, 1/8” mandrel</td>
<td>Passes</td>
</tr>
<tr>
<td>Salt Fog Resistance</td>
<td>ASTM B117 (5000 hours)</td>
<td>Rating 10 per ASTM D714 for blistering; Rating 7 per ASTM D610 for rusting</td>
</tr>
<tr>
<td>Corrosion Weathering</td>
<td>ASTM D5894, 10 cycles 3360 hours</td>
<td>Rating 10 per ASTM D714 for blistering; Rating 10 per ASTM D610 for rusting</td>
</tr>
<tr>
<td>Pencil Hardness</td>
<td>ASTM D3363</td>
<td>5H</td>
</tr>
<tr>
<td>Dry Heat Resistance</td>
<td>ASTM D2485 (B) @275F</td>
<td>Passes- No cracks or discoloration</td>
</tr>
</tbody>
</table>
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.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:
Steel: SSPC-SP6/NACE 3
2-3 mil (50-75 micron) profile

For other alternatives see the Application bulletin on page 3.

Condition of Surface
ISO 8501-1  BS7079:A1  SSPC  NACE
White Metal  Sa 3  SP 5  1
Near White Metal  Sa 2.5  SP 10  2
Commercial Blast  Sa 2  SP 6  3
Brush-Off Blast  Sa 1  SP 7  4
Hand Tool Cleaning  Rusted  Pitted & Rusted  D  Si 2  SP 2  -
Power Tool Cleaning  Rusted  Pitted & Rusted  D  Si 3  SP 3  -

Tinting
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.

Application Conditions
Temperature: Min: 40°F (4.5°C), Max 120°F (49°C)
(Air, surface, material) At least 5°F (2.8°C) above dew point
Relative humidity: Min: 40%, Max: 85%

Refer to product Application Bulletin for detailed application information.

Ordering Information
Packaging:
1.25 gallons (4.7L) mixed
Part A: 1 gallon (3.8L) in a 1 gallon container
Part B: 1 quart (0.9L)

5 gallons (18.9L) mixed
Part A: 4 gallons (15.1L) in a 5 gallon (18.9L) container
Part B: 1 gallon (3.8L)

Safety Precautions
Refer to the MSDS 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.

Warranty
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.
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.

**Iron & Steel - Atmospheric**
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is commercial blast cleaning per SSPC-SP6/NACE 3. For best performance, use near white metal blast cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Coat any bare steel the same day as it is cleaned or before flash rusting occurs.

**Concrete and Masonry**
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 2-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

Follow the standard methods listed below when applicable:

- ASTM D4258 Standard Practice for Cleaning Concrete.
- ASTM D4259 Standard Practice for Abrading Concrete.
- ASTM D4260 Standard Practice for Etching Concrete.
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
- SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
- ICRI No. 310.2R Concrete Surface Preparation.

**Previously Painted* Surfaces**
If the solvent in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

*It is not recommended to use Sher-Loxane 800 over surfaces previously coated with a water based coating.

### Surface Preparation Standards

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<tr>
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<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>SP 3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>SP 3</td>
<td>-</td>
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**Application Bullitin**

**Application Conditions**

- Temperature: (Air, surface, material) Min: 40°F (4.5°C), Max 120°F (49°C)
- Recommended relative humidity 40 - 85%
- Note: <40%RH will increase dry times; >85% will decrease dry times

**Application Equipment**

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

- **Reducer:** Not Recommended
- **Clean Up:** MEK, MIBK, MAK, Oxsol
- **Airless Spray**
  - Pump: \(\geq 35:01\)
  - Pressure: 2000 psi
  - Tip: \(0.015" - .019"\)
  - Reduction: Not Recommended
- **Conventional Spray**
  - Gun: Binks 95
  - Fluid Nozzle: 67
  - Air nozzle: 667
  - Atomization Pressure: 60 psi
  - Fluid Pressure: 20 psi
  - Reduction: Not Recommended
- **Plural Component**
  - Consult Your SW sales or tech service representative
- **Brush**
  - Brush: Natural bristle
  - Reduction: Not Recommended
- **Roller**
  - Cover: 3/8" woven with solvent resistant core
  - Reduction: Not Recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.
**APPLICATION PROCEDURES**

Surface preparation must be completed as indicated.

Mix contents of each component at a 4:1 ratio by volume (A:B) Mix with a Jiffy type mixer.

Apply paint at the recommended film thickness and spreading rate as indicated below:

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**NOTE:** Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

**Drying Schedule @ 5.0 wet dry (100 microns):**

- @ 40°F/4.5°C (40% RH)
  - To touch: 8 hours
  - To handle: 21 hours
  - To recoat: minimum: 16 hours
    - maximum: 90 days
  - To cure: 7-8 days

- @ 77°F/25°C (50% RH)
  - To touch: 2 hours
  - To handle: 6 hours
  - To recoat: minimum: 3 hours
    - maximum: 90 days
  - To cure: 7 days

- @ 90°F/32°C (60% RH)
  - To touch: 1.5 hours
  - To handle: 4 hours
  - To recoat: minimum: 1.5 hours
    - maximum: 90 days
  - To cure: 3 days

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

**Pot Life:** 4 hours

**Sweat-in-Time:** None Required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

**CLEAN UP INSTRUCTIONS**

Clean spills and spatters immediately with recommended solvents. Clean tools immediately after use. Follow manufacturer's safety recommendations when using any solvent.

**DISCLAIMER**

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 Information and Application Bulletin.

**PERFORMANCE TIPS**

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, climatic conditions, and excessive film build.

Do not apply the material beyond recommended pot life.

Refer to Product Information sheet for additional performance characteristics and properties.

**SAFETY PRECAUTIONS**

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