Protective & Marine Coatings
PRODUCT DATA SHEET

SHER-LOXANE® 800
TWO COMPONENT POLYSILOXANE

Revised: July 21, 2021

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
- 20°F (-5°C) cure

PRODUCT DATA

Finish: Gloss and Semi-Gloss

Colors: Wide range of colors available

Volume Solids: 90% ± 3%, mixed

VOC: <100 g/L; 0.77 lb/gal (EPA Method 24)
12gms/kilo*
*content by weight from formulation, to satisfy EC Solvent Emissions Directive

Mix Ratio: 4:1 by volume

Typical Thickness:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**5.0** (125)	**7.0** (175)
Dry mils (microns)	**4.0** (100)	**6.0** (150)
~Coverage sq ft/gal (m^2/L)	**240** (6.0)	**360** (9.0)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1443** (35.4)	

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

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)

Flash Point:
Standard: 145°F (63°C), PMCC or SETA, mixed
Fast Cure: 154°F (68°C), PMCC or SETA, mixed

Reducer: Not required (MEK or Oxsol 100)

Clean Up: MEK, MIBK, MAK, Oxsol 100

Weight: 11.22 ± 0.2 lb/gal ; 1.3 Kg/L, mixed
may vary by color

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

with Standard Hardener:

	77°F (25°C) *50% RH*	100°F (40°C) *50% RH*	120°F (50°C) *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		

with Fast Cure Hardener:

	20°F (-5°C) *10% RH*	50°F (10°C) *40% RH*	77°F (25°C) *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		

*Pot life is dependent upon paint temperature and mixed volume

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

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

[1]Gloss
[2]Semi-Gloss

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 1-2

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APPLICATION

Airless Spray
Pump.....35:1 minimum
Pressure.....2000 psi minimum (137 bar)
Tip .....015"-.019" (0.38-0.48 mm)

Conventional Spray
Gun .....Binks 95
Fluid Nozzle 67
Air Nozzle.....667
Atomization Pressure.....60 psi (4 bar)
Fluid Pressure.....20 psi (0.7 bar)

Plural Component Spray
Consult your SW sales or technical service representative

Brush
Brush.....Natural Bristle
Note: Required film thickness may not be achieved in one coat

Roller
Cover .....3/8" woven with solvent resistant core

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

RECOMMENDED SYSTEMS

Dry Film Thickness / ct.		Mils	(Microns)
Steel, Atmospheric, per ISO 12944-6 (2018), C5M			
2 Cts.	Sher-Loxane 800	4.7	(120)
Steel, Inorganic Zinc/Polysiloxane Topcoat, Atmospheric			
1 Ct.	Zinc Clad II (85)	2.0-4.0	(50-100)
1 Ct.**	Sher-Loxane 800	4.0-6.0	(100-150)
Steel, Organic Zinc/Polysiloxane, Atmospheric			
1 Ct.	Zinc Clad IV (85)	3.0-5.0	(75-125)
1 Ct.	Sher-Loxane 800	4.0-6.0	(100-150)
Steel, Atmospheric			
1*-2 Cts.	Sher-Loxane 800	4.0-6.0	(100-150)
Steel, Atmospheric			
1 Ct.	Macropoxy 267	5.0	(125)
1 Ct.	Sher-Loxane 800	4.0-6.0	(100-150)
Steel, Atmospheric			
1 Ct.	Macropoxy 646	5.0-10.0	(125-250)
1 Ct.	Sher-Loxane 800	4.0-6.0	(100-150)
Steel, Inorganic Zinc/Epoxy/Polysiloxane, Atmospheric			
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)
Steel, Epoxy/Epoxy/Polysiloxane, Atmospheric			
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)

**Steel, Atmospheric
1*-2 Cts. Sher-Loxane 800 4.0-6.0 (100-150)
*One coat acceptable in light industrial environments

**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.

The systems listed above are representative of the product's use, other systems may be appropriate.

APPLICATION CONDITIONS

Recommended Temperature (air, surface, material):

with Standard Hardener*:	50°F (10°C) minimum
(50-85% RH)	120°F (50°C) maximum
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

*below 77°F (25°C), for the semi-gloss sheen ONLY, you may see up to a week delay in low sheen achievability

APPROVALS

- 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

ADDITIONAL NOTES

Tint 150% tint strength with Maxitoner Colorants only into Part A. Do not exceed 15 oz/gal. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

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

Do not mix previously catalyzed material with new.

HEALTH AND SAFETY

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.

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