

# Siloxoshield 1K

## Single Component Polysiloxane

### MIL-PRF-24635E Type V, Comp 1



### Intended Uses:

SiloxoShield 1K is a single component polysiloxane coating offering excellent durability, color retention, and chemical resistance. This product offers exceptional stain and moisture resistance better or equal to single component moisture cure urethane and 2-component urethanes without the use of free isocyanate. SiloxoShield 1K can be applied via brush, roll or spray application. SiloxoShield 1K is ideally suited for use on refineries, offshore oil platforms, commercial, Coast Guard, and Naval vessels, containers, and for use in the OEM fleet, agricultural, and heavy industrial equipment marketplace. SiloxoShield 1K was designed in conjunction with the U.S. Navy for use in the naval marine marketplace.

### Physical Properties

<b>Color:</b>	Available in many 595 colors.	<b>Theoretical Coverage:</b>	800-1000 sq ft/gal @ 1 mil dft
<b>Gloss:</b>	Per class	<b>Viscosity:</b>	65-85 KU
<b>Volume Solids:</b>	60 +/- 5%	<b>QUV 313B:</b>	1000 hours
<b>Weight Solids:</b>	65 +/- 5%	<b>Flash Point:</b>	100-110 F
<b>Weight Per Gallon:</b>	9-11 lb/gal	<b>MEK, 100 Double Rubs:</b>	Pass @ 24 hours
<b>VOC:</b>	<250 g/L	<b>Water Immersion:</b>	Excellent
<b>Recommended Film Thickness Wet:</b>	2 - 6 mils per coat	<b>Recommended Film Thickness Dry:</b>	1.2 - 3.6 mils per coat

### Main Product List

Color #	Color Name	Gloss	Product #	Container
26270 LSA	Haze Gray	45-60	N-9999-1	1 gallon can
26270 LSA	Haze Gray	45-60	N-9999-5	5 gallon can
26008 LSA	Deck Gray	45-60	N-10044-1	1 gallon can
26008 LSA	Deck Gray	45-60	N-10044-5	5 gallon can

See chart on last page for other colors currently formulated.

### Recommended Primers

<u>Substrate</u>	<u>Recommended Primer</u>
<b>Steel:</b>	NCP Siloxoprime, Seaguard 5000, Interbond 998 or other approved NAVSEA primer. Light sanding and solvent wipe may be needed if the primer has dried more than 48 hours.
<b>Previously Painted Surfaces:</b>	See notes in Surface Preparation.

### Application Equipment

<b>Air Assisted Airless:</b>	<b>Air Pressure:</b> 30:1 pump or larger @80-100 psi	<b>Shaping Air:</b> 30-40 psi	<b>Tip:</b> 0.15-0.19"
<b>Airless:</b>	<b>Air Pressure:</b> 2500 psi minimum	<b>Tip:</b> 0.15-0.19"	
<b>Brush and Roll:</b> Roll apply with a 3/8" nap roller and natural bristle brush			

# Technical Data Sheet

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### Surface Preparation

Do not apply if the application surface temperature is below 50°F (10°C) or above 120°F (49°C), or if the surface temperature is within 5°F of the dew point. Do not apply when humidity is less than 30% or greater than 80%. Coating temperature should be no lower than 50F or higher than 90F.

Surface preparation is key to the coating's adhesion, appearance, and longevity. With that in mind, please adhere to the following steps when painting over aged coatings.

1. Clean entire surfaces to be coated with fresh water and allow to completely dry
2. Sand all surfaces to be coated with 80-100 grit aluminum oxide paper, either manually or with orbital sanders
3. Wipe away sanding residue with damp clean rags
4. After masking where appropriate, apply N-9999 via brush and roller (3/8" nap preferable). Apply at 2-3 mils WFT. This equates to a rate of approximately 320 ft<sup>2</sup>/gallon.
5. Remove masking the next day
6. Note – Do not apply in thick fog or impending marine layer, as coating may cure cloudy and not to a nice semi-gloss sheen.

### Application Characteristics

<b>Mixing:</b>	Mix coating thoroughly before application.
<b>Reducer:</b>	N/A Ready to use.
<b>Cleaning Solvent:</b>	Aromatic Solvents or MAK
<b>Dry Times@ 75F</b>	<b>Touch:</b> 2 hours <b>To Handle:</b> 10 hours <b>To Service:</b> 6 days. See following charts and graphs for more detailed dry times. <b>Recoat/Touch Up:</b> Minimum 7 hours. Maximum: 24 hours. Scuff sand if past Maximum Recoat time. See following charts and graphs for more detailed recoat times.

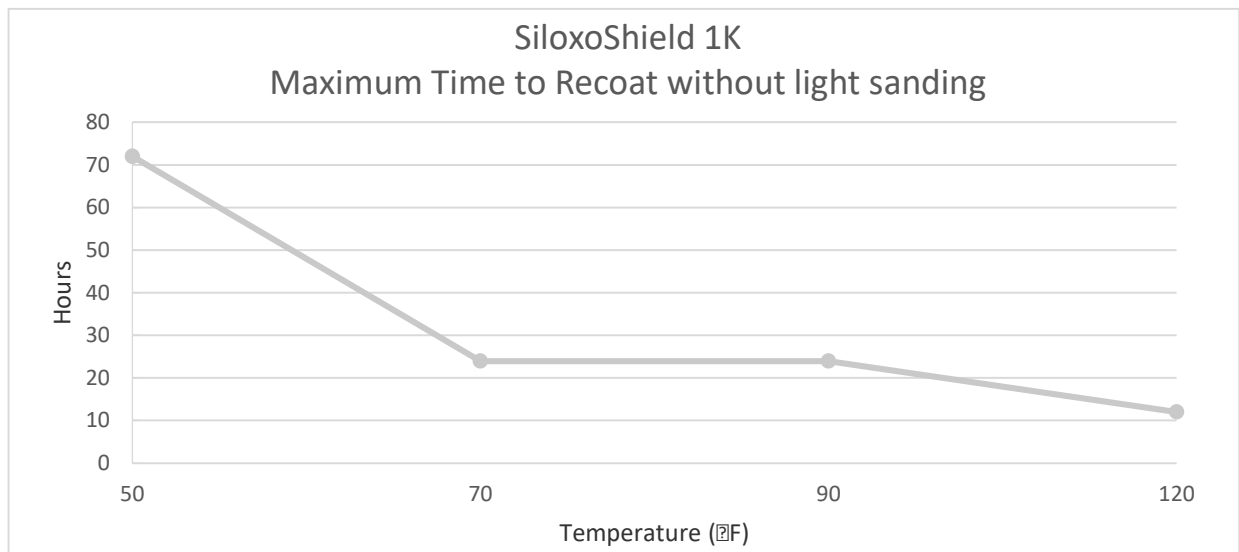
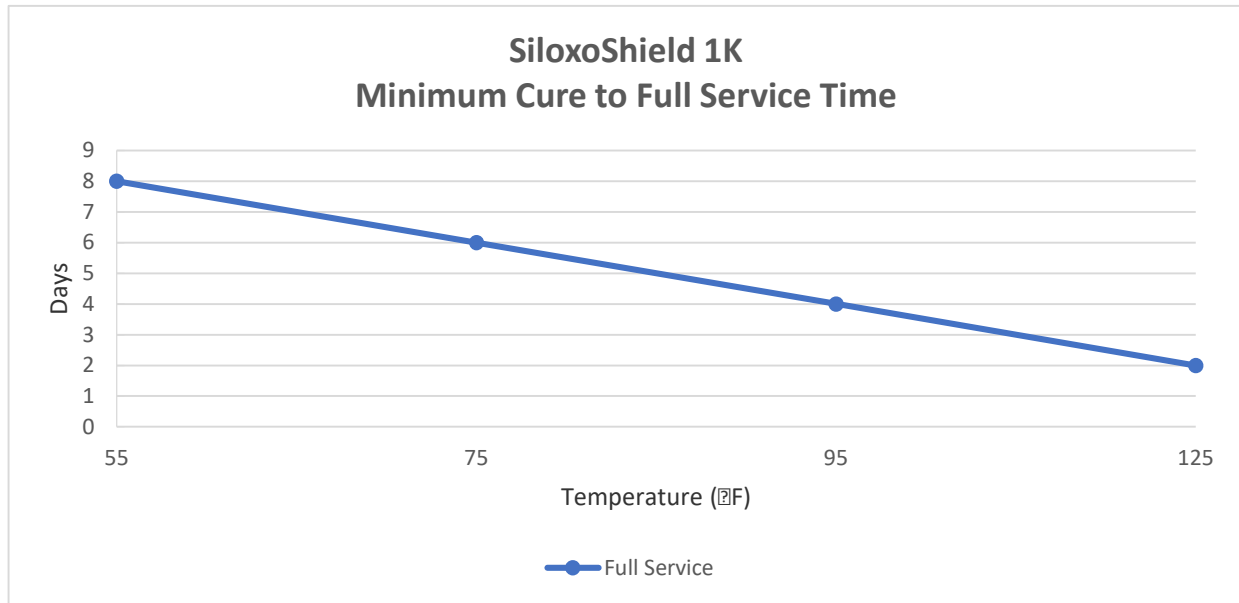
#### **Dry Times:**

Minimum Overcoat Window:	24 Hr(s) @	50°F (10°C)
	7 Hr(s) @	75°F (24°C)
	6 Hr(s) @	95°F (24°C)
	5 Hr(s) @	120°F (49°C)
Maximum Overcoat Window:	72 Hr(s) @	50°F (10°C)
	24 Hr(s) @	75°F (24°C)
	24 Hr(s) @	95°F (35°C)
	12 Hr(s) @	120°F (49°C)
Dry to Touch:	4 Hr(s) @	50°F (10°C)
	2 Hr(s) @	75°F (24°C)
	2 Hr(s) @	95°F (35°C)
	1 Hr(s) @	120°F (49°C)
Dry to Handle	16 Hr(s) @	50°F (10°C)
	10 Hrs(s) @	75°F (24°C)
	6 Hrs(s) @	95°F (35°C)
	3 Hrs(s) @	120°F (49°C)
Dry to Full Service	8 Days @	50°F (10°C)
	6 Days @	75°F (24°C)
	4 Days @	95°F (35°C)
	2 Days @	120°F (49°C)

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Sanding required above the line of the recoat graph.  
No Sanding required below the line of the recoat graph.

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### **Safety Precautions**

This product is intended for professional use in an industrial environment only! Consult the Material Safety Data Sheet prior to application for detailed information on the health and safety hazards.

### **Shelf Life & Storage Conditions**

Shelf life (protected from atmospheric moisture): 12 months from the date of manufacture. This product must be stored in accordance with local, state, and national regulations. Storage Requirements: 40 – 105 F. Keep containers in a dry space with adequate ventilation.

### **Comments**

For additional information contact your NCP Coatings, Inc. Sales Representative, Customer Service Representative, or visit our website: [www.ncpcoatings.com](http://www.ncpcoatings.com)

### **Note**

The above information is supplied as a guideline to our customers. The user must be aware of the cleaning, pretreatment, application and testing requirements for their specific job!

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<u>Colors</u>	<u>595 chip</u>	<u>NCP Code</u>	<u>Grade</u>
Brown	10080	S-10275	A
Tan	10324	S-10276	A
Buff	10371	S-10277	A
Red	11105	S-10272	A
Orange	12246	S-10278	A
Yellow	13538	S-10273	A
Dark Green	14062	S-10279	A
Light Green	14449	S-10280	A
Dark Blue	15044	S-10281	A
Blue	15123	S-10282	A
Blue	15182	S-10283	A
Light Blue	15200	S-10284	A
Dark Gray	16081	S-10285	A
Gray	16187	S-10286	A
Light Gray (equipment)	16376	S-10287	A
Green-gray	16555	S-10288	A
Black	17038	S-10289	A
Gold	17043	S-10274	A
Dark Purple	17100	S-10290	A
Light Purple	17142	S-10291	A
Soft White	17886	S-10292	A
Chartreuse	23814	S-10293	A
Deck Gray	26008	N-10044	B
Ocean Gray	26173	S-10194	B
Haze Gray	26270	N-9999	B
Bulkhead Gray	26307	S-10366	A
Light Gray	26373	S-10195	B
Black	27038	S-10294	A
White	27875	S-10295	A
Black	37038	S-10173	A