

## Ply-Guard PSC8

## Technical Bulletin

Ply-Guard PSC8 is a newly engineered two-component Polysiloxane coating technology offering the combination of technologically advanced siloxane resins and special ultraviolet inhibitors resulting in an industrial finish coat providing exceptional long term durability. Ply-Guard PSC8 provides extremely long-term performance and a wide range of uses such as exterior coatings for bridges, marine vessels, offshore structures, railcars, tanks, pulp and paper mills, chemical plants, refineries, and other steel structures exposed to the most corrosive environments.

Ply-Guard PSC8 outperforms both acrylic and polyester urethane coatings when tested in weathering and salt fog cabinets. The color and gloss retention is dramatic with an expected performance life which may exceed 30 years. The use of proper prime coats must be carefully considered due to the long expected life of the finish.

### Key Features

- Meets or exceeds SSPC Paint 36, Level 3 requirements
- Can be used as a clear finish over other coating technologies to enhance color and gloss longevity
- Offers excellent abrasion resistance
- Is easily cleaned
- Contains low VOCs or Hazardous Air Pollutants (HAPs)

<b>Product Data</b>	<i>(All readings taken at 25°C, unless noted)</i>
<b>Flash Point:</b>	> 100°F (> 37.8°C)
<b>Type of Material:</b>	Catalyzed Polysiloxane
<b>Color:</b>	Standard Colors Available; High Gloss
<b>Volume Solids (%):</b>	98
<b>VOC (lbs/gal.):</b>	0.43
<b>Theoretical Estimated Coverage (ft<sup>2</sup>/gal.):</b>	1572 @ 1 mil DFT
<b>Recommended Film Thickness (mils/coat):</b>	3–7 (dry)
<b>Number of Coats:</b>	1 coat
<b>Method of Application:</b>	Spray, Brush, or Roll
<b>Thinner &amp; Clean-Up Solvent:</b>	165 Thinner
<b>Pot Life (Hours):</b>	> 6 Hours @ 75°F (24°C)

### Mix Ratio

**Parts by Volume:** 4.0 Part A (base) : 1.0 Part B (catalyst)

**Drying Time:** 6 Hours to Handle; Dry Hard in 10 Hours

**Shelf Life:** 1 year in original unopened containers

**Storage:** Store between 60–95°F (16–35°C)

### Surface Preparation

When applied over an approved primer the surface to be coated shall be absolutely clean (free of contamination). Apply only over properly prepared and primed surfaces.

Care must be taken in selection of the primers and surface preparation. Consult with your Polyset Technical Representative for advice regarding approved primers.

### Mixing

Mix contents of Part A (base component) separately prior to addition of Part B (catalyst). Mix total contents of Part B (catalyst) container into Part A (base) container using slow agitation so as to avoid incorporation of moisture. If Part B (catalyst) container is bulged or the contents are not clear, do not use. Mix only the number of kits that can be applied within a 4 hour period. Never mix components from one manufacturer with those of another.

### Application

Can be applied by conventional and airless spray, brush, or roller. Do not apply when the surface temperature is less than 5°F (2.8°C) above the dew point.

### APPLICATION CONDITIONS

	PSC8	SURFACES	AMBIENT	REL. HUMIDITY
<b>IDEAL</b>	<b>60–85°F</b> (16–29°C)	<b>60–85°F</b> (16–29°C)	<b>60–85°F</b> (16–29°C)	<b>40–80%</b>
<b>MINIMUM</b>	<b>50°F</b> (10°C)	<b>40°F</b> (4°C)	<b>40°F</b> (4°C)	<b>10%</b>
<b>MAXIMUM</b>	<b>100°F</b> (38°C)	<b>120°F</b> (49°C)	<b>95°F</b> (35°C)	<b>80%</b>

### SPRAY GUN EQUIPMENT SELECTION

CONVENTIONAL:	FLUID TIP	AIR CAP
DeVilbiss – MBC 510	E	765
Binks – Model 18	66	63PB

### AIRLESS:

**Graco** – 30:1 ratio with golden gun

**Speeflo** – Commander 30 with H Gun; 0.015 or 0.017 orifice.

*Care must be taken to flush lines with thinner after use to prevent hardening.*

**FOR ADDITIONAL APPLICATION & EQUIPMENT RECOMMENDATIONS,  
PLEASE CONSULT YOUR POLYSET TECHNICAL REPRESENTATIVE.**

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