

PSX[®] 700SG

November 2011
Revision of January 2011

DESCRIPTION	Semi-gloss Engineered Siloxane
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - Unique, semi-gloss epoxy siloxane - Virtually HAPs free, ultra-low VOC - High durability in challenging environments - Abrasion resistant - Resists dirt pickup, easily cleaned - Can be applied directly to zinc primers as a 2-coat system
COLOR AND GLOSS	<p>Semi-gloss White, Black, Haze Gray, other Federal Standard colors</p> <p><i>Yellow, red, and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead free pigments in these colors.</i></p>
BASIC DATA	
Volume solids	90% ± 3%
VOC*	0.7 lbs/gal (84 g/L)
	<i>* The mixed and applied coating cure reaction will produce VOC of mixed alcohols. For 100 g/l VOC requirements, a VOC - exempt thinner such as 97-939 may be used as needed.</i>
Recommended Dry film thickness* (per coat)	4 - 7 mils (100 - 175 microns)
	<i>* When applying more than one coat, it is recommended that the total dry film thickness not exceed 10 mils.</i>
Theoretical Spread Rate	@ 1 mils dft 1444 ft ² /gal @ 5 mils dft 289 ft ² /gal
Components	2
Shelf Life	1 years from date of manufacture when stored indoors in the original unopened container. Store product in dry conditions at temperatures of 40-100°F
SURFACE PREPARATION	Coating performance is proportional to the degree of surface preparation.
Steel	<ul style="list-style-type: none"> - Abrasive blast to SSPC SP-6 or higher with an angular 1.0-3.0 mil as soon as possible to prevent the blasted surface from rusting. Keep moisture, oil, grease, or other organic matter off surface before coating. <p>Apply PSX 700 as soon as possible to prevent the blasted surface from rusting. Keep moisture, oil, grease, or other organic matter off surface before coating. For touch up and repair, power tool cleaning in accordance with SSPC SP-11 is acceptable.</p>
Concrete	- See specific primer
Aged Coatings	<ul style="list-style-type: none"> - Contact your PPG representative. A test patch of PSX 700SG over in-tact clean coating and observation for film defects and adhesion over a period of time may be required, dependent upon the type of coating. - PSX 700SG is compatible over Amercoat 450-series
ENVIRONMENTAL CONDITIONS	
Ambient temperatures*	32°F to 120°F (0°C to 49°C)
	<i>Surface temperature must be at least 5°F above the dew point temperature.</i>
Material temperatures	32°F to 100°F (0°C to 32°C)
Relative humidity	40% minimum
	<i>Work area can be artificially humidified by atomized water spray and/or ponding water under the coated structures. After the film is dry-to-touch, a fine mist may be applied over the coating to expedite curing in low humidity environments.</i>

PSX 700SG

Surface temperature	32°F to 120°F (0°C to 49°C) Surface temperature must be at least 5°F above dew point temperature.
General air quality	Area should be sheltered from airborne particulates and pollutants. Ensure good ventilation during application and curing. Provide shelter to prevent wind from affecting spray patterns.

INSTRUCTIONS FOR USE

Mixing ratio by volume	4 parts base to 1 part hardener Only mix full kits. Pre-mix base component with a pneumatic air mixing at moderate speeds to homogenize the container. Pour in the hardener component and power agitate until thoroughly mixed.
------------------------	--

Pot life

Temperature	50°F	70°F	90°F
PSX 700SG	6.5 hours	4 hours	1.5 hours

Airless spray	Standard airless spray equipment, 30:1 pump or larger, x.015 – x.017 fluid tip recommended
Air spray	Thin up to 10%, standard conventional equipment, 0.070" fluid orifice. A moisture and oil trap in the main line is recommended. Separate regulators for air and fluid pressure are recommended. Use an agitated pressure pot.
Brush & roll	Use a well loaded, high quality natural bristle brush. Maintain a wet edge. Use a high quality, well loaded, solvent resistant, low nap (1/4"-3/8") roller. <i>Amercoat 851</i> flow control additive may be used to enhance flow and leveling of brush strokes and roller stipple. Be aware that multiple coats may be required to achieve uniform and sufficient film thickness to provide proper hiding when applying by brush or roller.

Thinner	<i>Amercoat 911, Amercoat 101</i> (recommended for > 90°F)
Cleaning solvent	<i>Amercoat 12 Cleaner or Amercoat 911 thinner</i>
Primers	<i>Dimetcote 9-series, Dimetcote 21-5, Dimetcote 302H, Amercoat 68HS, Amerlock 2/400, Amercoat 370, Amercoat 385, Amercoat 240, Amercoat 235</i> A mist coat / full coat application technique is required when applying over inorganic zincs to prevent application bubbling. Thin the mist coat up to 15% with <i>Amercoat 911</i> or <i>Amercoat 101</i> . Ensure dry spray is removed from the surface.

Safety precautions	For paint and recommended thinners see safety sheet 1430, 1431 and relevant material safety data sheets This is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes.
--------------------	---

DRY/CURE TIMES*

PSX 700SG @ 4 mils dft and 40% relative humidity

	32°F	50°F	70°F	90°F
Dry to touch	12 hours	6 hours	3 hours	1.5 hours
Dry through	38 hours	11 hours	6 hours	4 hours
Dry to overcoat*	32 hours	9 hours	4.5 hours	3 hours
Maximum overcoat	unlimited*			

* Surface must be power washed as needed to remove all surface contaminants. Surface must be clean and dry. When re-coating within 72 hours, solvent wipe the surface with *Amercoat 911 thinner* prior to application of the second coat. than three times the dry through time.

PSX 700SG

PSX 700SG with FD Cure @ 4 mils dft and 40% relative humidity

	40°F	50°F	70°F	90°F
Dry to touch	9 hours	4.5 hours	2 hours	1 hour
Dry through	24 hours	8.5 hours	4.5 hours	3 hours
Dry to overcoat*	18 hours	7 hours	3 hours	2 hours
Maximum overcoat	unlimited*			

* Surface must be power washed as needed to remove all surface contaminants. Surface must be clean and dry. When re-coating within 72 hours, solvent wipe the surface with Amercoat 911 thinner prior to application of the second coat.

PRODUCT QUALIFICATIONS

- SSPC Paint 36 Level 3 Performance
- NFPA Class A Flame Spread
- USDA Incidental Food Contact
- AWWA D102-08

AVAILABILITY

Packaging

Available in 1 gallon and 5 gallon kits

Product codes

PX700SG2 F/S 26270 Haze Gray LSA
 PX700SG26 F/S 26173 Ocean Gray
 PX700SG210 F/S 26008 Deck Gray
 PX700SG3 White
 PX700SG9 Black
 PX700-B Hardener component
 PX700FD-B Fast Dry hardener component

Worldwide statement

While it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

WARRANTY STATEMENT

PPG warrants (i) its title to the products, (ii) that the quality of the product(s) conform to PPG's specifications for such products in effect at the time of manufacture and (iii) that the products shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the products. THESE ARE THE ONLY WARRANTIES PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG.

The information in this data sheet is based upon laboratory tests PPG believes to be accurate and is intended for guidance only. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of PPG products, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

This data sheet supersedes all previous versions and it is the user's responsibility to ensure that this data sheet is current prior to using the product. The English text of this document shall prevail over any translation thereof.

PSX 700SG

LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by PPG Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG Protective & Marine Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. PPG Protective & Marine Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product. The current data sheets are maintained at www.ppgpmc.com

The English text of this document shall prevail over any translation thereof.
