

# Stephen G. Ford Painting, Inc. Lic.# 266816

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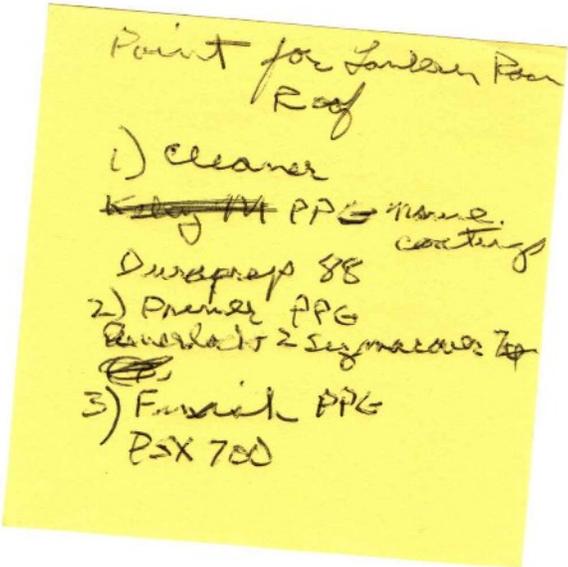
## Estimate

DATE	ESTIMATE NO.
4/12/2019	3878

NAME / ADDRESS
ken Henshaw 747 Short street Pacific Grove, CA 93950

Project

P.G. Lighthouse
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DESCRIPTION	TOTAL
Exterior priming and painting of the lighthouse copper roof/ Sand, Prime and apply three coats to desired color	7,450.00
Boom rental	2,500.00
	
<b>TOTAL</b>	<b>\$9,950.00</b>

PRODUCT DATA SHEET

7-12-19

Copper Lantern Boon  
July 23, 2015

DURAPREP® | PREP 88

KELLY MOORE

Roof - First Step  
Cleaner mixed  
with water & appli-  
ed w/ pressure washer

DESCRIPTION

Waterborne alkaline cleaner

PRINCIPAL CHARACTERISTICS

- Excellent cleaning of soiled and chalked surfaces
- Biodegradable
- Emulsifies oils
- Contains no solvents, phosphates, halogens, or petroleum distillates
- Dramatically improves aged overcoatability, saving on costs for secondary surface preparation
- Freezing point: 25°F (-4°C)
- Boiling Point: 212°F (100°C)
- Flash Point: none
- pH 11.5 - 13.0
- Coverage: 1 gallon (diluted 2 parts water to 1 part concentrate) will treat between 1,000 - 1,500 square feet, depending on the configuration of the substrate and application losses

COLOR AND GLOSS LEVEL

- Clear to slight haze

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	One
VOC (Supplied)	max. 0.0 lb/US gal (approx. 0 g/l)
Shelf life	At least 60 months when stored cool and dry

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Ambient temperature should be between 40°F (5°C) and 100°F (37°C)
- Material temperature should be between 40°F (5°C) and 90°F (32°C)
- Surface temperature should be between 40°F (5°C) and 100°F (37°C) (pre-cool the surface by water rinsing prior to application of Prep 88 if required)

# DURAPREP® | PREP 88

## INSTRUCTIONS FOR USE

- 1. Shield any surfaces not intended to be treated
- 2. Wear appropriate eye protection and avoid contact with skin
- 3. Pre-clean any heavy residues by power washing
- 4. If steel temperatures exceed 100°F (37°C), pre-cool the steel by water washing to prevent Prep 88 from drying on the surface prematurely. Do not apply under freezing conditions
- 5. Mix Prep 88 with fresh, clean water according to the instructions below:
  - LIGHT CLEANING (NO VISIBLE CONTAMINANTS): 3 parts water to 1 part concentrate
  - GENERAL CLEANING AND RESOTRING OVERCOATABILITY: 2 parts water to 1 part concentrate
  - HEAVY SOILING, GREASY RESIDUES: 100% concentrate
- 6. Prep 88 can be applied with a low pressure sprayer (garden sprayer, etc.), brush, or roller
- 7. Apply generously to the surface, ensuring all areas are thoroughly wetted. Caution should be used on complex structures to ensure Prep 88 can be applied to all areas and subsequently rinsed.
- 8. Scrub with a nylon brush as needed for cleaning heavy residues
- 9. Allow Prep 88 to dwell on the surface for the following times based on the surface temperatures:
  - 40°F: 20 - 30 minutes
  - 70°F: 10 - 20 minutes
  - 90°F: 10 - 15 minutes
  - 100°F: 5 - 10 minutes
- Do not allow Prep 88 to dry on the surface. If product does dry on the surface, a second application of Prep 88 will be required to dissolve the dried residue.
- 10. Power wash the surface to thoroughly rinse all traces of Prep 88 from the surface. Ensure the surface pH has been neutralized (7.5 maximum). Failing to remove Prep 88 from the surface will be detrimental to the performance of successive coats.
- 11. Allow the surface to dry thoroughly prior to overcoating.
- 12. Protect surfaces from contamination prior to overcoating. Apply coatings within the following timeframe of Prep 88 application:
  - 40°F - 50°F: 48 hours
  - 51°F - 70°F: 36 hours
  - 71°F - 90°F: 32 hours
  - >90°F: 24 hours

# DURAPREP® | PREP 88

**Product specific overcoatability guide when Prep 88 is used**

- AGED ACRYLIC POLYURETHANE: atmospheric, ambient temperature service / overcoated by epoxy, PSX or polyurethane --> overcoatable after treatment
- AGED EPOXY, FREELY CHALKING: atmospheric, ambient temperature / overcoated by epoxy, PSX, or polyurethane --> overcoatable after treatment
- AMERCOAT 370, 385, 235, 240, AMERLOCK 2/400, PITTCUARD EPOXY: atmospheric, ambient temperatures / overcoated by epoxy --> overcoatable after treatment
- AMERCOAT 370, 385, 235, 240, AMERLOCK 2/400, PITTCUARD EPOXY: atmospheric, ambient temperatures / overcoated by polyurethane --> overcoatable after treatment for up to 3 months from initial application
- PPG EPOXIES: ambient water immersion / overcoated by PPG epoxies --> extend maximum overcoat window by 50%
- PPG EPOXIES: severe duty\* / overcoated by PPG epoxies --> extend maximum overcoat window by 20%

**Notes:**

- \*Severe duty includes heavy impact / abrasion, elevated temperatures, polluted (waste) water immersion (not recommended for chemical tank lining service)
- \*\*Other product specific recommendations may be available based on previous testing. Contact PPG PMC Technical Service for details or expectations.

**SAFETY PRECAUTIONS**

- See Material Safety Data Sheet and product label for complete safety and precaution requirements

**WORLDWIDE AVAILABILITY**

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, 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.

**REFERENCES**

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

**WARRANTY**

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT 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. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

# DURAPREP® | PREP 88

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. 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 the PPG product, 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, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. 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 any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgmc.com](http://www.ppgmc.com). The English text of this sheet shall prevail over any translation thereof.

Product code	Description
PREP788	Duraprep / Prep 88

Note: Available in 1-gallon and 5-gallon kits

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# AMERLOCK® 2 / SIGMACOVER™ 2

*Primer*

## DESCRIPTION

Two-component, high solids epoxy coating

## PRINCIPAL CHARACTERISTICS

- Low-temperature curing down to 0°C (32°F)
- High performance self priming universal epoxy
- High solids, low VOC
- Surface tolerant and abrasion resistant
- Compatible with prepared, damp surfaces
- Good adhesion on most existing coatings
- Good resistance to splash and spillage of chemicals
- Meets NSF Standard 61 for tanks, pipes, valves and fittings (US manufacturing only)
- Proven coating as a bulk rail lining and DTM exterior coating

## COLOR AND GLOSS LEVEL

- Standard primer colors and custom colors
- Semi-gloss

Note: Epoxy coatings will chalk and fade with exposure to sunlight. Light colors are prone to ambering to some extent. Note that product tinted to custom colors are not recommended for immersion service. Only use factory grind batches for immersion

## BASIC DATA AT 10°C (50°F)

Data for mixed product	
<b>Number of components</b>	Two
<b>Mass density</b>	1.4 kg/l (11.7 lb/US gal)
<b>Volume solids</b>	85 ± 2%
<b>VOC (Supplied)</b>	Directive 1999/13/EC, SED: max. 114.0 g/kg max. 163.0 g/l (approx. 1.4 lb/US gal) EPA Method 24: 1.5 lb/US gal (180.0 g/l)
<b>Temperature resistance (Continuous)</b>	To 120°C (250°F)
<b>Temperature resistance (Intermittent)</b>	To 175°C (350°F)
<b>Recommended dry film thickness</b>	100 - 200 µm (4.0 - 8.0 mils)
<b>Theoretical spreading rate</b>	8.5 m <sup>2</sup> /l for 100 µm (341 ft <sup>2</sup> /US gal for 4.0 mils)
<b>Dry to touch</b>	6 hours
<b>Overcoating Interval</b>	See overcoating tables



# AMERLOCK® 2 / SIGMACOVER™ 2

## Data for mixed product

<b>Shelf life</b>	Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry
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### Notes:

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- For compliance with regulations which require VOC less than 100 g/L, AMERLOCK 2 VOC can be specified interchangeably
- AMERLOCK 2 VOC is available only in US and Canada
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours
- Temperature resistance is in atmospheric condition. Please contact your PPG representative for immersion condition.

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Remove all loose paint, mill scale, and rust. The surface to be coated must be dimensionally stable, dry, clean and free of grease, oil, and other foreign materials. When proper abrasive blast surface preparation is not practical, surfaces should be chipped clean and wire brushed to bare, clean material

### Carbon steel

- For immersion service: steel; blast cleaned to ISO-Sa2½ (SSPC SP-10)
- For atmospheric service, abrasive blast to ISO-Sa2½ or minimum SSPC SP-6, power tool cleaned to ISO-St3 (SSPC SP-3) or hand tool cleaned to ISO-St2 (SSPC SP-2) or ultra high pressure water jet to SSPC SP WJ-2(L) / NACE WJ-2(L)

### Concrete / Masonry

- Remove grease, oil and other penetrating contaminants according to ASTM D4258
- Abrade the surface per ASTM D4259 to remove all chalk and surface glaze or laitance. Achieve surface profile - ICRI CSP 3 to 5
- Fill voids as necessary with AMERCOAT 114 A epoxy filler
- Maximum recommended moisture transmission rate is 3 lbs / 1,000 ft<sup>2</sup> / 24 hours by moisture transmission test (ASTM F1869, calcium chloride test or by ASTM D4263, plastic sheet test)
- Alternatively, ASTM D4944 (Calcium Carbide Gas method) can be used, moisture content should not exceed 4%

### Galvanized steel

- Remove oil or soap film with detergent or emulsion cleaner
- Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines to achieve a profile of 40 - 75 µm (1.5 - 3.0 mils). When light abrasive blasting is not possible, galvanizing can be treated with a suitable zinc phosphate conversion coating
- Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all contaminants and white rust



# AMERLOCK® 2 / SIGMACOVER™ 2

**Non-ferrous metals and stainless steel**

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines to achieve a profile of 40 - 100 µm (1.5 - 4.0 mils)

**Aged coatings and repairs**

- Aged suitable coating must be dry and free from any contamination
- For single-pack coatings, extra precautions are necessary

**Substrate temperature**

- Substrate temperature during application and curing should be between 0°C (32°F) and 50°C (122°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

**SYSTEM SPECIFICATION**

- Primers: Direct to substrate; DIMETCOTE Series, AMERCOAT 68 Series, AMERLOCK 2 / 400 Series, SIGMAZINC Series, AMERCOAT Epoxies and SIGMA Epoxies
- Topcoats: AMERCOAT 450 Series, SIGMADUR Series, SIGMACOVER Epoxies, AMERCOAT Epoxies, AMERSHIELD and PSX 700

Note: Please contact your PPG representative if using an alternate primer

**INSTRUCTIONS FOR USE**

**Mixing ratio by volume: base to hardener 50:50 (1:1)**

- The paint should be stirred well before use, preferably by means of a mechanical mixer, to ensure homogeneity
- Add hardener to base and continue stirring until homogeneous

**Induction time**

Mixed product induction time	
Mixed product temperature	Induction time
0°C (32°F)	45 minutes
10°C (50°F)	30 minutes
15°C (59°F)	20 minutes
20°C (68°F)	10 minutes
Above 23°C (73°F)	None

**Pot life**

2 hours at 10°C (50°F)

Note: See ADDITIONAL DATA – Pot life



# AMERLOCK® 2 / SIGMACOVER™ 2

## Air spray

### **Recommended thinner**

THINNER 91-92 FOR GLOBAL, THINNER 21-06 (AMERCOAT 65) FOR NSF/ANSI 61, THINNER 91-82 (AMERCOAT T10) for NON NSF/ANSI 61 and < 90°F (32°C), THINNER 21-25 (AMERCOAT 101) for NON NSF/ANSI 61 and > 90°F (32°C)

### **Volume of thinner**

0 - 10%, depending on required thickness and application conditions

## Airless spray

### **Recommended thinner**

THINNER 91-92 FOR GLOBAL, THINNER 21-06 (AMERCOAT 65) FOR NSF/ANSI 61, THINNER 91-82 (AMERCOAT T10) for NON NSF/ANSI 61 and < 90°F (32°C), THINNER 21-25 (AMERCOAT 101) for NON NSF/ANSI 61 and > 90°F (32°C)

### **Volume of thinner**

0 - 5%, depending on required thickness and application conditions

### **Nozzle orifice**

Approx. 0.48 mm (0.019 in)

### **Nozzle pressure**

15.0 - 18.0 MPa (approx. 150 - 180 bar; 2176 - 2611 p.s.i.)

## Brush/roller

- Apply evenly using a well-loaded brush or roller
- Application by brush or roller will provide approximately 80 µm (3.1 mils) DFT in a single-coat application

## Cleaning solvent

THINNER 90-53, THINNER 90-58 (AMERCOAT 12) OR THINNER 21-06 (AMERCOAT 65)

## ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
100 µm (4.0 mils)	8.5 m <sup>2</sup> /l (341 ft <sup>2</sup> /US gal)
125 µm (5.0 mils)	6.8 m <sup>2</sup> /l (273 ft <sup>2</sup> /US gal)
200 µm (8.0 mils)	4.3 m <sup>2</sup> /l (170 ft <sup>2</sup> /US gal)



# AMERLOCK® 2 / SIGMACOVER™ 2

Overcoating interval for DFT up to 200 µm (8.0 mils)					
Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself and various two-pack epoxy coatings	Minimum	24 hours	12 hours	6 hours	3 hours
	Maximum	1 month	1 month	1 month	1 month
urethane and PSX	Minimum	24 hours	12 hours	6 hours	3 hours
	Maximum	14 days	14 days	7 days	4 days

**Notes:**

- Surface should be dry and free from any contamination
- A detergent wash with PREP 88, SIGMARITE 88 or equivalent is required prior to application of topcoats after 30 days of exposure
- If maximum recoat time has been exceeded, roughen surfaces
- Alkyd coatings and waterborne acrylic coatings should be applied after the film is dry to handle and not greater than three times dry to handle time
- Maximum recoating time is highly dependent upon actual surface temperature - not simply air temperatures. Sun-exposed or otherwise heated surface will shorten the maximum recoat window

Curing time for DFT up to 200 µm (8.0 mils)		
Substrate temperature	Dry to handle	Full cure
0°C (32°F)	38 hours	21 days
10°C (50°F)	14 hours	7 days
20°C (68°F)	5 hours	4 days
30°C (86°F)	3 hours	3 days

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Pot life (at application viscosity)	
Mixed product temperature	Pot life
0°C (32°F)	4 hours
10°C (50°F)	2 hours
20°C (68°F)	1 hour
30°C (86°F)	30 minutes

**Product Qualifications**

- NORSOK M501 Rev. 5, System 7 Subsea surfaces
- Compliant with USDA Incidental Food Contact Requirements
- NFPA Class A for Flame Spread and Smoke Development
- Qualified for ANSI/NSF Standard 61 (potable water). For NSF application instructions, please visit the following website: <http://www.nsf.org/certified-products-systems/>
- AWWA D102-06 ICS #1, #2, #3, #5
- Nuclear Service Level 2 (ANSI N 5.12, ANSI N 101.2)
- LEED's compliant for Anti-corrosive Paint category



# AMERLOCK® 2 / SIGMACOVER™ 2

## SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 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

## WORLDWIDE AVAILABILITY

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## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD - TOXIC HAZARD	INFORMATION SHEET	1431
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496
• RELATIVE HUMIDITY - SUBSTRATE TEMPERATURE - AIR TEMPERATURE	INFORMATION SHEET	1650

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT 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. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. 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 the PPG product, 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, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. 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 any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

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# PSX® 700

## DESCRIPTION

Two-component, engineered siloxane coating

## PRINCIPAL CHARACTERISTICS

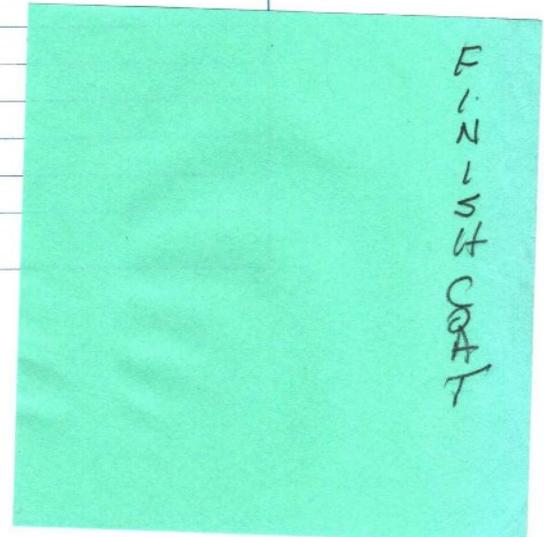
- Unique, high gloss, engineered siloxane
- Can be applied directly over inorganic zinc
- Excellent color and gloss retention
- Resists graffiti
- High solids, VOC compliant
- Applied by brush, roller or spray, without thinning
- Good resistance to splash and spillage of chemicals
- Can be applied as a single coat, direct-to-metal for moderately corrosive environments (ISO 12944 C1-C3)

## COLOR AND GLOSS LEVEL

- Full color range
- High gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.4 kg/l (11.3 lb/US gal)
Volume solids	90 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 119.0 g/kg max. 164.0 g/l (approx. 1.4 lb/US gal) EPA Method 24: 0.7 lb/US gal (84.0 g/l)
Temperature resistance (Continuous)	To 93°C (200°F)
Temperature resistance (Intermittent)	To 120°C (250°F)
Recommended dry film thickness	75 - 175 µm (3.0 - 7.0 mils) per coat
Theoretical spreading rate	7.2 m <sup>2</sup> /l for 125 µm (289 ft <sup>2</sup> /US gal for 5.0 mils)
Dry to touch	2 hours
Overcoating Interval	Minimum: 3 hours Maximum: Unlimited



# PSX® 700

Data for mixed product	
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

**Notes:**

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- When applying more than one coat, it is recommended that the total DFT should not exceed 250 µm (10.0 mils)
- Color will drift at elevated temperatures
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours

### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation

#### Substrate conditions

- Steel; pretreated minimum ISO-Sa2 (SSPC SP-6) or higher with blasting profile 25 – 75 µm (1.0 – 3.0 mils)
- For touch up and repair, power tool cleaning in accordance with SSPC SP-11 is acceptable
- Galvanized steel; sweep blasted to roughen the surface to remove any zinc salts which might be present, SSPC SP-16 with blasting profile 40 – 75 µm (1.5 – 3.0 mils)
- Stainless steel and non-ferrous metal; degreased and sweep blast, SSPC SP-16 with blasting profile 40 – 100 µm (1.5 – 4.0 mils)
- Concrete / Masonry; see specific primer
- Compatible previous coat must be dry and free from any contamination
- When applied to zinc silicate primer, a mist coat and full coat technique is required. 15% thinning is recommended for mist coat
- Aged suitable coating must be dry and free from any contamination, it may require abrading prior to applying this product
- Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating

#### Substrate temperature

- Substrate temperature during application and curing should be above 0°C (32°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should be above 40% to obtain optimal curing properties

Note: FD hardener should be used when ambient temperature is below 5°C (40°F)

### SYSTEM SPECIFICATION

- Primers: Direct to substrate, DIMETCOTE Series, AMERCOAT 68 Series, AMERLOCK 400 / 2 Series, SIGMAZINC Series, AMERCOAT Epoxies and SIGMA Epoxies



# PSX® 700

## INSTRUCTIONS FOR USE

### **Mixing ratio by volume: base to hardener 80:20 (4:1)**

- Use a power mixer powered by an air or explosion-proof electric motor

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### **Induction time**

None

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### **Pot life**

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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### **Air spray**

#### **Recommended thinner**

THINNER 60-12 (AMERCOAT 911) or THINNER 21-06 (AMERCOAT 65) for global, THINNER 21-25 (AMERCOAT 101) is recommended for above 90°F (32°C) in US only

#### **Volume of thinner**

5 - 10%, depending on required thickness and application conditions

#### **Nozzle orifice**

1.5 - 2.0 mm (approx. 0.060 - 0.079 in)

#### **Nozzle pressure**

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

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### **Airless spray**

#### **Recommended thinner**

THINNER 60-12 (AMERCOAT 911) or THINNER 21-06 (AMERCOAT 65) for global, THINNER 21-25 (AMERCOAT 101) is recommended for above 90°F (32°C) in US only

#### **Volume of thinner**

0 - 5%, depending on required thickness and application conditions

#### **Nozzle orifice**

Approx. 0.38 - 0.48 mm (0.015 - 0.019 in)

#### **Nozzle pressure**

20.0 MPa (approx. 200 bar; 2901 p.s.i.)



# PSX® 700

### Brush/roller

- The recommended DFT cannot be reached in one coat
- Use a high quality natural bristle brush and / or solvent resistant, short nap roller. Ensure brush / roller is well loaded to avoid air entrapment
- Maintain a wet edge

### Cleaning solvent

THINNER 90-53, THINNER 90-58 (AMERCOAT 12) or THINNER 60-12 (AMERCOAT 911)

### ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
75 µm (3.0 mils)	12.0 m <sup>2</sup> /l (481 ft <sup>2</sup> /US gal)
125 µm (5.0 mils)	7.2 m <sup>2</sup> /l (289 ft <sup>2</sup> /US gal)
175 µm (7.0 mils)	5.1 m <sup>2</sup> /l (206 ft <sup>2</sup> /US gal)

Overcoating interval for DFT up to 175 µm (7.0 mils) at RH 40% or above						
Overcoating with...	Interval	0°C (32°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself (when PSX 700 is used)	Minimum	N/A	20 hours	9 hours	4.5 hours	3 hours
	Maximum	N/A	Unlimited	Unlimited	Unlimited	Unlimited
itself (when PSX 700FD is used)	Minimum	20 hours	12 hours	7 hours	3 hours	2 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Notes:

- Surface should be dry and free from any contamination
- When re-coat between dry through time and 7 days, solvent wipe surface with any of PSX 700 thinners prior to application of the second coat of PSX 700
- Hardener manufactured in Europe is fast drying version only with "PSX 700 FDE Hardener" name

Curing time with standard hardener for DFT up to 175 µm (7.0 mils) at RH 40% or above		
Substrate temperature	Dry to touch	Dry to handle
5°C (41°F)	9 hours	24 hours
10°C (50°F)	6 hours	11 hours
20°C (68°F)	3 hours	6 hours
30°C (86°F)	1.5 hours	4 hours



# PSX® 700

Curing time with FD(fast drying) hardener for DFT up to 175 µm (7.0 mils) at RH 40% or above		
Substrate temperature	Dry to touch	Dry to handle
0°C (32°F)	9 hours	24 hours
5°C (41°F)	7 hours	16 hours
10°C (50°F)	4.5 hours	8.5 hours
20°C (68°F)	2 hours	4.5 hours
30°C (86°F)	1 hour	3 hours

**Notes:**

- Adequate ventilation must be maintained during application and curing
- Hardener manufactured in Europe is fast drying version only with "PSX 700 FDE Hardener" name

Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	6.5 hours
20°C (68°F)	4 hours
30°C (86°F)	1.5 hours

Note: Same pot life between normal and FD hardener

**Product Qualifications**

- SSPC Paint 36 Level 3 Performance
- NFPA Class A Flame Spread
- Compliant with USDA Incidental Food Contact Requirements
- Qualified for ISO 12944 C5 with several systems
- Qualified for NORSOK M501 Rev.6 System 1 with several systems
- Meets requirements of ANSI N5.12 and ASTM D5144 for Coating Service Level II

**SAFETY PRECAUTIONS**

- 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
- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

**WORLDWIDE AVAILABILITY**

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, 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.



# PSX® 700

## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650
• PSX® 700 SILOXANE QUALITY ASPECT APPLICATION	INFORMATION SHEET	1721

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT 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. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

## LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. 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 the PPG product, 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, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. 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 any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgmc.com](http://www.ppgmc.com). The English text of this sheet shall prevail over any translation thereof.

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