

# **WPCF Paint Bundle #4 Figures**

**Exhibit - A**

**RFQ #1630-042716**



Figure 1: PG&E Disconnect. Gray

**CAN NOT DE-ENERGIZE THIS RAIN PROOF EQUIPMENT- NO POWER WASHING.**



Figure 2: 12KV substation solar disconnect (east side). Gray

**CAN NOT DE-ENERGIZE THIS RAIN PROOF EQUIPMENT- NO POWER WASHING.**



Figure 3: 12KV substation ground connection and transformer (west side). Gray



Figure 4: West Substation transformers. Gray



Figure 5: West Substation (north side transformer). Gray



Figure 6: West Substation (north side transformer - back of unit). Gray



Figure 7: West Substation (south side transformer). Gray



Figure 8: West Substation (south side transformer - back of unit). Gray



Figure 9: East Substation Transformers/Disconnects. Gray



Figure 10: Back side of East substation (south side transformer/disconnect backside). Gray



Figure 11: Back side of East substation (north side-transformer/disconnect backside). Gray



Figure 12: East Substation (north side- transformer/disconnect). Gray



Figure 13: East Substation (south side transformer/disconnect). Gray



Figure 14: Old Cogen west side raceway. Gray



Figure 15: Backside of old Cogen eastside transformer and raceway. Gray



Figure 16: Front side of old Cogen eastside transformer/t and raceway. Gray



Figure 17: Backside of old Cogen west side transformer and raceway. Gray



Figure 18: Front side of old Cogen west side transformer and raceway. Gray



Figure 19: Old Cogen transformer disconnect. Gray

**CAN NOT DE-ENERGIZE THIS RAIN PROOF EQUIPMENT- NO POWER WASHING.**



Figure 20: Old Cogen transformer disconnect. Gray

**CAN NOT DE-ENERGIZE THIS RAIN PROOF EQUIPMENT- NO POWER WASHING.**



Figure 21: Gas Storage Tank. White

TANK WILL BE PRESSURIZED AS USUAL. FACILITY MANAGEMENT WILL EXPLAIN SAFETY AND EQUIPMENT PROTECTION ISSUES REGARDING THIS TANK.



Figure 22: Sites Waste Area. Black



Figure 23: East side of Solids Contact area. Brown



Figure 24: Three valve operators; two on right Gray one on left Black



Figure 25: One of two valve operators and wheel. Gray



Figure 26: One of two valve operators and wheel. Gray



Figure 27: Storm water station piping. Blue



Figure 28: W.A.S. piping. Brown



Figure 29: Final Clarifier tank drainage pump station. Dark Gray



Figure 30: Final Clarifier Drive (1 of 2). Gray



Figure 31: Scum pump piping and valves (1 of 2). Brown



Figure32: 4 inch Scum piping (1 of 2). Brown



Figure 33: Scum piping (1 of 2). Brown



Figure 34: RAS piping and valves (1 of 2). Brown



Figure 35: RAS piping and valves (1 of 2) Brown



Figure 36: Maintenance Building. White



Figure 37: Storage Building. White



Figure 38: Service Building. White



Figure 39: Vaccuator Field panel. Gray



Figure 40: Shed. White

EXHBIT – B  
PRODUCT SPECIFICATIONS



# AMERLOCK® 2

May 2013

Revision of April 2013

<b>DESCRIPTION</b>	Fast Dry, Surface Tolerant, High Solids Epoxy Coating
<b>PRINCIPAL CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>- Fast dry</li> <li>- Low VOC</li> <li>- High performance general maintenance coating for new or old steel</li> <li>- Self priming over most existing coatings</li> <li>- Compatible with prepared damp surfaces</li> <li>- Compatible with adherent rust remaining on prepared surfaces</li> <li>- Dry temperature resistance up to 450°F on insulated or uninsulated surfaces when mixed with Amercoat 880 glass flake additive</li> <li>- Suitable for use in many industries including off-shore, water/wastewater, power, steel fabrication and public use facilities.</li> </ul>
<b>COLOR AND GLOSS*</b>	<p>Semi-gloss Standard primer colors, custom colors, and aluminum</p> <p><i>* 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.</i></p>
<b>BASIC DATA</b>	
Volume solids	85% ± 3%
VOC	1.5 lbs/gal (180 g/L) EPA Method 24 (Use Amerlock 2 VOC when <100 g/L formulation is required) 1.4 lbs/gal (163 g/L) Directive 1999/13/EC, SED
Recommended Dry film thickness (per coat)	4 – 8 mils (100 – 200 microns)
Theoretical Spread Rate	@ 1 mils dft 1331 ft <sup>2</sup> /gal @ 5 mils dft 266 ft <sup>2</sup> /gal
Components	2
Dry Temperature Resistance*	Continuous — 250°F Intermittent — 350°F (<5% of the time, max 24 hours) <i>* Color will drift at elevated temperatures.</i>
Shelf Life	3 years from date of manufacture <i>* when stored in original sealed containers in dry conditions between 40-100°F</i>
<b>SURFACE PREPARATION</b>	Coating performance is, in general, proportional to the degree of surface preparation. Abrasive blasting is usually the most effective and economical method. When this is impossible or impractical, Amerlock 2 can be applied over mechanically cleaned surfaces. All surfaces must be clean, dry and free of all contaminants, including salt deposits. Contact PPG for maximum allowable salt containment levels.
Mild Steel	<ul style="list-style-type: none"> <li>- Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required: SSPC-SP2, 3, 6, 7 or 10 (ISO 8501-1 St-2, St-3, Sa 1, Sa 2.5). These minimum surface preparation standards apply to steel that has been previously abrasive blasted. The choice of surface preparation will depend on the system selected and end-use service conditions. For more severe service and immersion, clean to SSPC-SP10 (ISO8501-1 Sa 2.5). Blast to achieve an anchor profile of 1.0-5.0 mils (25-125 microns) as indicted by a Keane-Tator Surface profile Comparator or Testex Tape. Previously blasted steel may be ultra-high pressure water jetted to SSPC SP WJ-2(L) / NACE WJ-2(L). The wet surface can be dried by blowing with dry compressed air giving special attention to horizontal surfaces and recesses.</li> </ul>
Concrete	<ul style="list-style-type: none"> <li>- Prepare / clean surface in accordance with SSPC SP-13 guidelines. Abrade surface per ASTM D-4259 to remove all efflorescence and laitance, to expose sub-surface voids, and to provide a surface roughness equivalent of 60 grit sandpaper or coarser. Test for moisture by conducting a plastic sheet test in accordance with ASTM D4263. Fill voids as necessary with Amercoat 114A epoxy filler. For slabs on grade, test for moisture in accordance with ASTM F1869 (calcium chloride test). The maximum allowable moisture transmission is 3 lbs / 1,000 ft<sup>2</sup>/24 hours. Refer to Information Sheet 1496ACUS for further details regarding moisture measurements.</li> </ul>

## AMERLOCK 2

- 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 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 at least 12 months of exterior weathering and has a rough surface with white rust present may be over-coated after power washing and cleaning to remove white rust and other contaminants. The surface must have a measurable profile. A test patch is recommended to confirm adhesion. Not recommended over chromate sealed galvanizing without blasting to thoroughly remove chromates. Adhesion problems may occur.
- Non-Ferrous Metals and Stainless Steel
  - Abrasive blast in accordance with SSPC SP-16 guidelines to achieve a uniform and dense 1.5-4.0 mil anchor profile. Size and hardness of abrasive should be adjusted as necessary based on the hardness of the substrate. Aluminum may be treated with a surface treatment compliant with Mil-DTL-5541 or equivalent (non-immersion applications only).
- Aged coatings
  - All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion products or chalky residue. Abrade surface, or clean with Prep 88. Amerlock 2 is compatible over most types of properly applied and tightly adhering coatings, however, a test patch is recommended to confirm compatibility.
- Repair
  - Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating. Thoroughly remove dust or abrasive residue before touch-up.

### ENVIRONMENTAL CONDITIONS

- Ambient temperatures\* 20°F to 122°F (-6°C to 50°C)
  - \* Amerlock 400 hardener can be used with the Amerlock 2/400 base component for applications that require a long pot life. The A component is the same for Amerlock 400 and Amerlock 2. The B components are interchangeable.
- Material temperatures 40°F to 90°F (5°C to 32°C)
- Relative humidity 0 to 100%, surface must be free of visible moisture. For immersion service and for optimum performance, surface temperature must be at least 5°F above the dew point temperature.
- Surface temperature 20°F to 122 °F (-6°C to 50°C)
  - \* Amerlock 2 may be applied to surfaces as hot as 250°F (121°C) for non-immersion service. When applying Amerlock 2 to surfaces between 122°F and 250°F, Amerlock 2 must be thinned at 1/2 pint per gallon with only Amercoat 101 thinner. Multiple thin passes may be required to achieve film build and to avoid solvent blistering.
- General air quality Area should be sheltered from airborne particulates and pollutants. Avoid combustion gases or other sources of carbon dioxide that may promote amine blush. Ensure good ventilation during application and curing. Provide shelter to prevent wind from affecting spray patterns. Refer to Information Bulletin #1489 for further information on prevention, detection, and mitigation of amine blush.

### INSTRUCTIONS FOR USE

- Mixing ratio by volume 1 part base to 1 part hardener
  - Pre-mix pigmented components with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1-2 minutes until completely dispersed.

Pot life

	32°F	50°F	70°F	90°F
2	4 hours	2 hours	1 hour	0.5 hour
2AL	3 hours	1.5 hours	0.75 hour	0.5 hour

Induction time

None required

Airless spray

45:1 pump or larger, 0.017-0.019 fluid tip  
Can be sprayed with plural component application equipment.

Air spray

Thin up to 20%, standard conventional equipment, 0.070" fluid orifice

Brush & roll

Use a high quality natural bristle brush and / or solvent resistant, 3/8" nap roller. Ensure brush / roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film build.

Thinner

Amercoat 65 (xylene), Amercoat 101 (recommended for > 90°F), Amercoat T10, Amercoat 8 (to extend pot life 10-20%)

## AMERLOCK 2

Cleaning solvent

Primers

Topcoats

Safety precautions

*Amercoat 12 Cleaner or Amercoat 65 thinner (xylene)*

Direct to substrate; *Dimetcote* series primers, *Amercoat 68HS*, *Amercoat 68MCZ*

*Amercoat 450 Series Polyurethanes, Amershield, PSX 700, PSX One, Amercoat 220 Series Acrylics, Pitthane Polyurethanes*

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.

*Amerlock 2 @ 5 mils dft*

### DRY/CURE TIMES

	32°F	50°F	70°F	90°F
Dry to touch	24 hours	8 hours	2 hours	1 hour
Dry through	38 hours	14 hours	5 hours	3 hours
Dry to recoat/topcoat	24 hours	12 hours	6 hours	3 hours
Max recoat, self	90 days	60 days	30 days	14 days
Max topcoat, urethanes, PSX	30 days	21 days	7 days	4 days
Cure to immersion <i>factory colors only</i>	21 days	7 days	4 days	3 days
Cure to immersion - potable water	Refer to: <a href="http://www.ppgamercoatus.ppgpmc.com/NSF/">www.ppgamercoatus.ppgpmc.com/NSF/</a> for specific application and curing requirements			

*Amerlock 2 Aluminum @ 5 mils dft*

	32°F	50°F	70°F	90°F
Dry to touch	30 hours	11 hours	3.5 hours	2 hours
Dry through	48 hours	17 hours	7 hours	3.5 hours
Dry to recoat	30 hours	12 hours	6 hours	3 hours
Max recoat, self	90 days	60 days	30 days	14 days
Max topcoat, urethanes, PSX	30 days	21 days	7 days	4 days
Cure to immersion	21 days	7 days	4 days	3 days

\* *Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window. An extended recoatable window may be allowable in some circumstances. Please contact your PPG PMC representative for more details.*

*Surface must be clean and dry. Any contamination must be identified and removed. A detergent wash with Prep 88 or equivalent is required prior to application of topcoats after 30 days of exposure. However, particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods. If maximum recoat/topcoat time is exceeded, then roughen surface.*

### PRODUCT QUALIFICATIONS

- 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 tanks, pipes, valves, and fittings. For NSF application instructions, please visit our website at: [www.ppgamercoatus.ppgpmc.com/NSF/](http://www.ppgamercoatus.ppgpmc.com/NSF/)
- AWWA C210-98
- AWWA C550-98
- AWWA D102-06 ICS #1, #2, #3, #5
- LEED's compliant for Anti-corrosive Paint category
- Nuclear Service Level 2 (ANSI N 5.12, ANSI N 101.2)
- NORSOK M501 Rev. 5, System 7 Subsea surfaces

## AMERLOCK 2

### AVAILABILITY

#### Packaging

Available in 2-gallon and 5-gallon kits

2-gallon kits have 1 full gallon of base and 1 full gallon of hardener

5 gallon kits have 2.5 gallons of base and 2.5 gallons of hardener

#### Inventory (made to order, etc..)

Global availability

#### Product codes

AK2-1	Buff
AK2-3	White
AK2-9	Black
AK2-23	Pearl Gray
AK2-72	Oxide Red
AK2-81	Safety Yellow
AK2-T1	Deep Tint base*
AK2-T2	Light Tint base*
AK2-T3	Neutral Tint base*
AK2-T4	Red Tint base*
AK2-T5	High Hiding Yellow Tint base*
AK2-B	Hardener component
AK2-01A	Amerlock 2AL Aluminum Base
AK2-01B	Amerlock 2AL Aluminum Hardener

\* Tintable using UCD V-Line colorants only.

#### 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 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.

### LIMITATION 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.

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## AMERSHIELD VOC

October 2012  
Revision of April 2012

<b>DESCRIPTION</b>	Polyester-Acrylic Aliphatic Polyurethane
<b>PRINCIPAL CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>- Unique, high-solids, high build coatings</li> <li>- Outstanding weather resistance with excellent color and gloss retention</li> <li>- Tough, flexible, and abrasion resistant finish</li> <li>- Good chemical and stain resistance</li> <li>- Direct to metal and concrete in protected environments</li> <li>- Compliant with California SCAQMD Rule 1113</li> </ul>
<b>COLOR AND GLOSS</b>	<p>Custom Colors</p> <p>Gloss</p> <p><i>* Certain colors ( especially yellow, orange and red) may require additional coats to achieve adequate hiding, particularly when applied over dark or contrasting primer colors. Yellow, red, and other bright colors will typically fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.</i></p>
<b>BASIC DATA</b>	
Volume solids	73% ± 3%
VOC	0.7 lbs/gal (84 g/L)
Recommended Dry film thickness (per coat)	3 – 6 mils (75 – 150 microns)
Theoretical Spread Rate	@ 1 mil dft    1171 ft <sup>2</sup> / gallon @ 5 mils dft    234 ft <sup>2</sup> / gallon
Components	2
Dry Temperature Resistance*	Continuous — 200°F    Intermittent — 250°F (<5% of the time, max 24 hours)
	<i>* Color will drift at elevated temperatures.</i>
Shelf Life	2 years from date of manufacture
<b>SURFACE PREPARATION</b>	<p>Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to overcoating. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings may require abrading prior to applying <i>Amershield</i>.</p> <ul style="list-style-type: none"> <li>- Abrasive blast to SSPC SP-6 or higher with a 1.0-3.0 mil surface profile.</li> <li>- Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines</li> <li>- see specific primer</li> </ul>
Steel	
Non-ferrous metals and stainless steel-	
Concrete / Masonry	
<b>ENVIRONMENTAL CONDITIONS</b>	
Ambient temperatures*	40°F to 120°F (-6°C to 49°C) With <i>Amercoat</i> 866M Accelerator    32°F to 100°F (0°C to 36°C)
Material temperatures	40°F to 90°F (5°C to 32°C)
Relative humidity	85% maximum
Surface temperature	40°F to 120°F (-6°C to 49°C) With <i>Amercoat</i> 866M Accelerator    32°F to 100°F (0°C to 36°C) Surface temperature must be at least 5°F above the 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.

## AMERSHIELD VOC

### INSTRUCTIONS FOR USE

Mixing ratio by volume

4 parts base to 1 part hardener

Pre-mix pigmented components with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1-2 minutes until completely dispersed.

Pot life

Temperature	50°F	70°F	90°F
<i>Amershield</i> VOC	5 hours	2.5 hours	1.5 hours
<i>Amershield</i> VOC with 866M accelerator	2 hours	1 hour	30 minutes

Airless spray

28:1 pump or larger, 0.013-0.015 fluid tip

Can be applied with plural component equipment

Air spray

Thin up to 20%, standard conventional equipment, 0.070" fluid orifice. A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination.

Brush & roll

Use a high quality natural bristle brush and / or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush / roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film build. *Amercoat* 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application. (use of 851 additive at greater than 2.5 oz/gal will increase the VOC to > 100 g/L.) Multiple coats may be required to achieve proper film build and hiding with roller application.

Thinner

PPG 97-739 (exempt), *Amercoat* 65 (xylene), *Amercoat* 101 (recommended for > 90°F), *Amercoat* 911

Cleaning solvent

*Amercoat* 12, 12E, or 12V Cleaner, 97-739, *Amercoat* 911 or *Amercoat* 65 thinner (xylene)

Primers

*Amercoat* 68HS, *Amercoat* 68HS VOC, *Amercoat* 68MCZ, *Amercoat* 370, *Amercoat* 385, *Amercoat* 399, *Amerlock* -series

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\*

*Amershield* VOC @ 5 mils dft

	40°F	50°F	70°F	90°F
Dry to touch	8 hours	4 hours	2.5 hours	1 hour
Dry through	5 hours	72 hours	10 hours	5 hours
Dry to recoat	72 hours	48 hours	8 hours	4 hours
Maximum recoat	168 hours	168 hours	96 hours	12 hours

*Amershield* VOC with 866M Accelerator @ 5 mils dft

	20°F	32°F	50°F	70°F	90°F
Dry to touch	8 hours	4 hours	75 minutes	25 minutes	10 minutes
Dry through	16 hours	10 hours	6 hours	3 hours	2 hours
Dry to recoat	16 hours	8 hours	4 hours	2 hours	1.5 hours
Maximum recoat	96 hours	48 hours	24 hours	12 hours	6 hours

### PRODUCT QUALIFICATIONS

– Compliant with USDA Incidental Food Contact Requirements



## AMERSHIELD VOC

### AVAILABILITY

**Packaging** Available in 1-gallon and 5-gallon kits  
 1-gallon kits have 0.8 gallons of base and 0.2 gallons of hardener  
 5-gallon kits have 4 gallons of base and 1 gallon of hardener

<b>Product codes</b>	AMV-3	White base
	AMV-9	Black base
	AMV-T1	Deep tint base*
	AMV-T2	Light tint base*
	AMV-T3	Neutral tint base*
	AMV-T4	Red tint base*
	AMV-T5	High Hiding Yellow tint base*
	AMV-71	Safety Red base
	AMV-81	Safety Yellow base
	AMV-23	Pearl Gray base
	AM-B	Hardener component

\* Tintable using UCD V-Line colorants only.

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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.

### LIMITATION 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.

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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.

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# PITT-TECH® PLUS | 90-1110 SERIES

## DESCRIPTION

One-component, int./ext. satin DTM industrial enamel

## PRINCIPAL CHARACTERISTICS

- 100% waterborne acrylic enamel
- Excellent adhesion for true DTM performance
- Easy to apply
- Low odor during application
- Soap and water clean up
- Improved color and gloss retention versus most alkyds and water based systems
- Flash rust resistant
- Washable, scrub resistant

## COLOR AND GLOSS LEVEL

- Custom colors, white
- Satin (15 to 20 w/ 60° meter)

Note: Certain colors, especially red, orange, and yellow may require additional coats for adequate hiding, especially if applied over primers with a significant color contrast

## BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	42 ± 3%
VOC (Supplied)	max. 0.7 lb/US gal (approx. 84 g/l)
Temperature resistance (Continuous)	To 200°F (93°C)
Temperature resistance (Intermittent)	To 250°F (121°C)
Recommended dry film thickness	2.0 - 4.0 mils (50 - 100 µm) depending on system
Theoretical spreading rate	337 ft <sup>2</sup> /US gal for 2.0 mils (8.4 m <sup>2</sup> /l for 50 µm)
Shelf life	At least 36 months when stored cool and dry

### Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- Two coats are required for maximum protection and for applications where this product is used as a finish coat
- Discoloration will occur at high temperatures

# PITT-TECH® PLUS | 90-1110 SERIES

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to overcoating. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings require abrading prior to applying the product. A test patch over unknown coatings is recommended.

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### Steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface in accordance with SSPC SP-1
- Power tool clean in accordance with SSPC SP-3 or hand tool clean to SSPC SP-2 requirements. Alternately, abrasive blast to SSPC SP-7 requirements. Abrasive blasting to SSPC SP-6 or better is also allowable and will give the best possible system performance
- Note that a primer must be used on all bare metal substrates when using colors made from Midtone, Deeptone, and Deep Rustic bases

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### Non-ferrous metals and galvanizing

- Remove oil or soap film with detergent or emulsion cleaner as per SSPC SP-1 and galvanizing requirements, then use a phosphatizing conversion coating
- Alternately, power tool clean to uniformly abrade the surface or lightly abrasive blast with a fine abrasive to produce a uniform and dense anchor profile of 1.0 – 2.0 mils (25 – 50 µm) in accordance with SSPC SP-16.
- Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all contaminants and white rust
- Galvanized surfaces that have been passivated with a chromate treatment must be abrasive blasted. Coatings may not adhere to chromate sealed galvanizing if the chromates are not completely removed.

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### Concrete / Masonry

- Clean concrete surface, abrasive blast per ASTM D4259 or acid-etch in accordance with ASTM D 4260
- Fill concrete voids with AMERCOAT 965 or AMERCOAT 114 A
- Clean masonry surfaces by ASTM D4261
- Fill masonry block with AMERLOCK 400 BF block filler or PPG 4-100 acrylic block filler

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### Wood

- Sand new bare wood to remove any surface contamination and surface cells
- Remove oil spots, sap or pitch by wiping with 97-727 thinner
- Countersink all nails and putty flush with the surface
- Properly dispose of solvent rags to avoid spontaneous combustion hazard
- A wood primer or a first coat of this product may be used to prime the surface
- To recoat primed wood, remove all dirt, grease, or oil with a cleaner. Rinse with clean water. Remove wax with a commercial de-waxer. Sand loose paint to a tight, adherent surface

# PITT-TECH® PLUS | 90-1110 SERIES

## Dry wall

- Tape all joints, fill cracks and nail holes with patching, paste or spackle; sand smooth. Remove all dust. Unsealed drywall will require at least 2 coats of this product

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## Substrate temperature and application conditions

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 40°F (4°C) and 100°F (38°C)
- Relative humidity in excess of 85% will slow curing

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## Warning

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH approved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

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## SYSTEM SPECIFICATION

- Primers for concrete, masonry, stucco, plaster: 4-603, 4-808, AMERLOCK SERIES (concrete)
- Primers for CMU: 4-100, AMERLOCK 400BF, 6-15, 16-90
- Primers for ferrous metal: self priming, 90-712, METALHIDE 2000, 6-208, 7-852
- Primers for non-ferrous metals: self priming, 90-712, 6-204, 6-208, 6-209
- Primers for drywall: 6-2, 9-900, 17-921
- Primers for Exterior Wood: 6-609, 17-921

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## INSTRUCTIONS FOR USE

- Agitate with a power mixer for 1 – 2 minutes until completely dispersed. Ensure good off-bottom mixing

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## Application

- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns
- Avoid exterior painting late in the day or when dew or condensation are likely to form or if rain is expected

## Material temperature

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)

# PITT-TECH® PLUS | 90-1110 SERIES

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## Air spray

- Use standard conventional equipment

## **Recommended thinner**

Tap water

## **Volume of thinner**

0 - 5%

## **Nozzle orifice**

Approx. 0.070 in (1.8 mm)

## **Nozzle pressure**

0.3 - 0.5 MPa (approx. 4 - 5 bar; 50 - 70 p.s.i.)

Note: Overthinning may result in inadequate film thickness and subsequent pinpoint rusting

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## Airless spray

- 28:1 pump or larger

## **Recommended thinner**

Tap water

## **Volume of thinner**

0 - 5%

## **Nozzle orifice**

0.013 - 0.017 in (approx. 0.33 - 0.43 mm)

Note: Overthinning may result in inadequate film thickness and subsequent pinpoint rusting

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## Brush/roller

- Use a high quality polyester/nylon brush and/or a high quality 3/8" nap roller. In hot or dry conditions, layoff lightly rolling with 3/8" nap roller cover. Multiple coats may be required to achieve specified film thickness

## **Recommended thinner**

Tap water

## **Volume of thinner**

0 - 5%

Note: Overthinning may result in inadequate film thickness and subsequent pinpoint rusting

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# PITT-TECH® PLUS | 90-1110 SERIES

## Cleaning solvent

Soap and water

## ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm )				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	6 hours	1.5 hours	1 hour
	Maximum	Unlimited	Unlimited	Unlimited

Note: Overcoating times valid for a relative humidity of 50%

Curing time for DFT up to 2.0 mils (51 µm )		
Substrate temperature	Dry to touch	Dry to handle
50°F (10°C)	60 minutes	4 hours
70°F (21°C)	20 minutes	1 hour
90°F (32°C)	12 minutes	40 minutes

Note: Curing times valid for a relative humidity of 50%

## Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- Meets MPI Category #151, Interior W.B. Light Industrial Coating
- Meets MPI Category #161, Light Industrial Coating, Interior W. B. Coating, Gloss, MPI Gloss Level 3
- Can help earn LEED 2009 credits
- Performance offset to Federal Standard TT-E-2784 and Mil-P-28578

## DISCLAIMER

- For industrial or professional use only

## SAFETY PRECAUTIONS

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

## Danger

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Refer to [www.pittsburghpaints.com](http://www.pittsburghpaints.com). Spontaneous Combustion Advisory for additional information

# PITT-TECH® PLUS | 90-1110 SERIES

## 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.

## LIMITATIONS OF LIABILITY

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## AVAILABILITY

### Packaging

1-gallon and 5-gallon kits

Product codes	Description
90-1110	White and Pastel Base
90-1120	Midtone Base*
90-1130	Deeptone Base*
90-1140	Deep rustic base*

### Notes:

- \* Must be tinted
- Refer to the appropriate color formula book, automatic tinting equipment, and/or computer color matching system for color formulas and tinting instructions

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# DURAPREP® | PREP 88

## 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, PITTGUARD EPOXY: atmospheric, ambient temperatures / overcoated by epoxy --> overcoatable after treatment
- AMERCOAT 370, 385, 235, 240, AMERLOCK 2/400, PITTGUARD 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

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## 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

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Product code	Description
PREP788	Duraprep / Prep 88

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

EXHBIT – C

SPECIFICATIONS FOR PAINTING TRANSFORMERS

## **OUTDOOR TRANSFORMERS**

### **TOUCHUP PAINTING:**

If touchup or maintenance of an existing coating is indicated, the surface should be prepared by removing rust, loose paint, dirt, scum, or foreign matter by sanding, grinding, scraping, or other effective means. Bare metal should be given one prime coat plus one coat of paint as indicated in the following paragraph, followed with a complete top coat of enamel or aluminum paint for all surfaces.

### **PAINT SPECIFICATIONS**

Where large areas of bare metal are to be painted, the specifications are the following:

All exterior exposed surfaces of ferrous metalwork for the transformers shall be cleaned to base metal. After cleaning, the surfaces shall be given one coat of priming paint followed by two coats of semi-gloss enamel. The exterior surfaces of aluminum.