**SHERPLATE PW EPOXY**  
WITH OPTI-CHECK OAP TECHNOLOGY

### PRODUCT INFORMATION

**Part A**
- B62W260  White

**Part A**
- B62L260  Blue

**Part B**
- B62V260  Hardener

**Part B**
- B62V265  OAP Hardener

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**Product Description**

SherPlate PW Epoxy is an edge retentive, ultra high solids epoxy amine coating engineered for immersion service in potable water pipes and storage tanks. The rapid return to service and high build, edge retentive properties of this coating provide superior protection.

- One or two coat protection
- Fast return to service
- Low odor
- Dry to walk-on within four hours
- Designed for plural-component application equipment
- Greater than 70% edge build retention

**Recommended Uses**

For use over prepared steel or masonry surfaces for water including potable water.

- Where rapid return to service and edge protection film build properties are required
- Part B Hardener available with OAP (optically active pigment)
- Meets or exceed the requirements of AWWA C210-15
- Meets or exceeds AWWA D102
- A component of INFINITANK
- Suitable for use in the Mining & Minerals Industry
- Meets MIL-PRF-23236, Type VII, Class 9/18 requirements for single coat application in potable water tanks
- Refer to www.nsf.org website for allowable tank size listing

**Performance Characteristics**

**System Tested:**
- 1 ct. SherPlate PW Epoxy @ 30.0 mils (750 microns) dft

**Test Name** | **Test Method** | **Results**
--- | --- | ---
Abrasion Resistance | ASTM D4060 | 22.4 mg loss
Adhesion | ASTM D4541 | >2,000 psi
Cathodic Disbondment | ASTM G8 | Passes AWWA C210-15 requirements; 7.7 mm (average)
Edge Retention | MIL-PRF-23236C | 80%+ (average)
Elongation | ASTM D638 | 3.3%
Flexibility | ASTM D522 | 1/2’’ (24 hour cure)
Flexural Modulus | ASTM D790 | 2560 psi
Flexural Strength | ASTM D790 | 7458 psi
Moisture Condensation Resistance | ASTM D4585 | Passes
Pencil Hardness | ASTM D3363 | 3H
Shore D Hardness | ASTM D2240 | 83

**Water Vapor Permeance:**

- ASTM D1653, Method B, Condition C
- 0.259 ± 0.380 grains/hr ft² in Hg

**Immersion (ambient temperature) for the following:**

- Deionized Water*.........................No effect
- Fresh Water…………………………….Recommended
- Potable Water………………………….Recommended
- Salt Water…………………………….Recommended
- Sulfuric Acid @ 1% by wt.*………………No effect
- Sodium Hydroxide @ 1% by wt.*………No effect
- 1% Solution of Sodium Hypochlorite……Recommended
- AWWA C210-15 Chemical Solutions……Recommended

*30 days @ ambient (passes AWWA C210-15)

Epoxy coatings may darken or yellow after application and curing.

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**Notes:**

- Sterilize and rinse per AWWA C652.
- If maximum recoat time is exceeded, abrade surface before recoating.
- Drying time is temperature, humidity, and film thickness dependent.
- Wash and rinse per AWWA C652.

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**Product Characteristics**

**Finish:** Gloss

**Color:** White-Base and Blue (OAP Hardener can be used with either color)

**Volume Solids:** 100%, mixed

**Weight Solids:** 100%, mixed

**VOC (EPA method #24):** <85 g/L; 0.71 lb/gal, mixed

**Mix Ratio:** 1:1 by volume

**Recommended Spreading Rate per coat:**

<table>
<thead>
<tr>
<th>Tank Lining mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0 (400)</td>
<td>50.0 (1250)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe Lining mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0 (400)</td>
<td>50.0 (1250)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>~Coverage sq ft/gal (m²/L)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>32</td>
<td>0.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Theoretical coverage sq ft/gal (m²/L)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1604 (39.4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

**Drying Schedule @ 20.0-50.0 mils wet (500-1250 microns):**

- @ 40°F/4.5°C @ 77°F/25°C @ 100°F/38°C
- 50% RH

<table>
<thead>
<tr>
<th>To touch:</th>
<th>6 hours</th>
<th>1 hour</th>
<th>35 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>To handle:</td>
<td>8-12 hours</td>
<td>3 hours</td>
<td>55 minutes</td>
</tr>
<tr>
<td>To recoat:</td>
<td>minimum:</td>
<td>6 hours</td>
<td>1 hour</td>
</tr>
<tr>
<td>maximum:</td>
<td>14 days</td>
<td>14 days</td>
<td>14 days</td>
</tr>
<tr>
<td>Foot traffic:</td>
<td>8-12 hours</td>
<td>3 hours</td>
<td>1 hour</td>
</tr>
<tr>
<td>To cure:</td>
<td>36 hours</td>
<td>24 hours</td>
<td>12 hours</td>
</tr>
</tbody>
</table>

**If maximum recoat time is exceeded, abrade surface before recoating.**

**Flexing Schedule:**

- 2000 hours Passes ASTM D4585, 2000 hours

**Shelf Life:**
- 24 months
- Store indoors at 40°F (4.5°C) to 100°F (38°C).

**Flash Point:**
- 230°F (110°C), PMCC, mixed

**Reducer:**
- Not recommended

**Clean Up:**
- MEK (R6K10) or Reducer R7K104

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*continued on back*
**PRODUCT INFORMATION**

### Recommended Systems

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>Swedish Std. SIS055900</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 6</td>
<td>1</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>SP 10</td>
<td>2</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 2</td>
<td>Sa 2</td>
<td>SP 6</td>
<td>3</td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>CS 2</td>
<td>CS 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Pitted &amp; Rusted</td>
<td>CS 3</td>
<td>CS 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>CS 3</td>
<td>CS 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
</tbody>
</table>

**Steel, Immersion (AWWA C210-15):**
1-2 cts. SherPlate PW Epoxy 16.0-50.0 (400-1250)

**Steel, Immersion (AWWA D102):**
1 ct. Optional Primer *
1-2 cts. SherPlate PW Epoxy 20.0-50.0 (500-1250)

**Steel, Immersion/Vapor Space (AWWA D102):**
1 ct. Corothane I GalvaPac (optional) 2.5-4.0 (63-100)
1 ct. SherPlate PW Epoxy 12.0-20.0 (300-500)

**Concrete, Immersion:**
1 ct. Primer **
1-2 cts. SherPlate PW Epoxy 20.0-50.0 (500-1250)

**Steel, Atmospheric:**
1-2 cts. SherPlate PW Epoxy 20.0-50.0 (500-1250)

**Acceptable Primers for Steel:**
- Macropoxy 5500LT Primer
- Corothane I GalvaPac 1K Zinc Primer
- Corothane I GalvaPac 2K Zinc Primer
- Dura-Plate UHS Primer
- Zinc Clad PCP Ultra

**Acceptable Primers for Concrete:**
- Macropoxy 240
- Corobond 100
- Corobond HS
- Dura-Plate 235
- Dura-Plate UHS Primer

The systems listed above are representative of the product’s use, other systems may be appropriate.

### Surface Preparation

- **Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.**
- **Refer to product Application Bulletin for detailed surface preparation information.**

**Minimum recommended product Application Bulletin:**
- **Iron & Steel: Atmospheric:**
  - SSPC-SP6/NACE 3, 2 mil (50 micron) profile or SSPC-SP12/NACE No. 5, WJ-3/SC-2
- **Immersion:**
  - SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile or SSPC-SP12/NACE No. 5, WJ-2/SC-2
- **Concrete & Masonry:**
  - SSPC-SP13/NACE 6, or ICRI 03732 CSP2-4
- **Immersion:**
  - SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI 03732 CSP2-4

**Surface Preparation Standards**

**Tinting**

Do not tint.

### Application Conditions

- **Temperature:**
  - 40°F (4.5°C) minimum, 110°F (43°C) maximum

For application at 35°F (1.7°C) to 40°F (4.5°C), specific guidelines are required:
- Air & Surface temperature conditions must be expected to remain stable or improve for a period of four hours
- Environmental controls (dehumidification, heating, forced-air ventilation) are recommended to maintain acceptable application conditions.
- For Potable Water Service, allow a minimum cure time of 24 hours at 77°F (25°C) prior to placing in service

**Relative humidity:** 85% maximum

Refer to product Application Bulletin for detailed application information.

### Ordering Information

**Packaging**
- **Part A:** 5 gallon (18.9L) pails and 50 gallon (189L) drums*
- **Part B:** 5 gallon (18.9L) pails and 50 gallon (189L) drums*

*White (Part A) and Standard Hardener (Part B) only

**Cartridge:**
- 300 x 300 mL and 750 x 750 mL

**Weight:**
- 11.7 ± 0.3 lb/gal; 1.4 Kg/L, mixed

### Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANDIABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel (atmospheric service)
Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3 or SSPC-SP12/NACE No. 5. For surfaces prepared by SSPC SP6/NACE 3, first remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). For surfaces prepared by SSPC-SP12/NACE No. 5, all surfaces shall be cleaned in accordance with WJ-3/SC2. Pre-existing profile should be approximately 2 mils (50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Iron & Steel (immersion service)
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2, or SSPC-SP12/NACE No. 5. For SSPC-SP10/NACE 2, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). For SSPC-SP12/NACE No. 5, all surfaces to be coated shall be cleaned in accordance with WJ-2/SC2 standards. Pre-existing profile should be approximately 2 mils (50 microns). Remove all weld spatter. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 2-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seal FT910. Primer required. For surface preparation of Concrete, Immersion Service, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 2-3.

Follow the standard methods listed below when applicable:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Ablading Concrete.
ASTM D4260 Standard Practice for Etching Concrete.
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
ICRI No. 310.2R Concrete Surface Preparation.

Surface Preparation Standards

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<td>C St 2</td>
<td>SP 8</td>
<td>-</td>
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<tr>
<td>Rust ed</td>
<td>D St 3</td>
<td>D St 3</td>
<td>SP 9</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>D St 3</td>
<td>D St 3</td>
<td>SP 10</td>
<td>-</td>
</tr>
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</table>

Pitted & Rusted

Application Bulletin

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<th>Application Conditions</th>
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<tr>
<td>Temperature: air and surface: 40°F (4.5°C) minimum, 110°F (43°C) maximum</td>
</tr>
<tr>
<td>For application at 35°F (1.7°C) to 40°F (4.5°C), specific guidelines are required:</td>
</tr>
<tr>
<td>• Air &amp; Surface temperature conditions must be expected to remain stable or improve for a period of four hours</td>
</tr>
<tr>
<td>• Environmental controls (dehumidication, heating, forced-air ventilation) are recommended to maintain acceptable application conditions</td>
</tr>
<tr>
<td>• For Potable Water Service, allow a minimum cure time of 24 hours at 77°F (25°C) prior to placing in service</td>
</tr>
<tr>
<td>The material should be 85°F-130°F / 29°C-54°C (vary as needed) at the mixing block for optimal atomization based on tip size and pump pressure. Do not heat above 140°F (60°C).</td>
</tr>
</tbody>
</table>

Relative humidity: 85% maximum

Application Equipment

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reduction ...................... Not recommended
Clean Up ........................ MEK (R6K10) or R7K104

Plural Component Equipment:
Pump ................................ WIWA DUOMIX 1:1, Graco Extreme Mix, or Graco XP70
Pressure ................................ 4000 psi
Hose ................................ 3/8" ID
Tip ........................................... 0.21" - .025" Pump heater setting ............. 110°F-130°F (43°C-54°C) Material temperature at gun tip ................. 110°F-130°F (43°C-54°C), vary as needed
Brush ...................................... For stripe coating and repair only Brush ...................................... Nylon/Polyester or Natural Bristle
Roller ...................................... For stripe coating and repair only Cover ...................................... 3/8" woven with solvent resistant core

*Material should be preheated to 110°F (43°C) prior to spraying.

If specific application equipment is not listed above, equivalent equipment may be substituted.
APPLICATION PROCEDES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation.

To ensure that no unmixed material remains on the sides or bottom of the cans after mixing, visually observe the container by pouring the material into a separate container.

Apply paint at the recommended film thickness and spreading rate as indicated below:

<table>
<thead>
<tr>
<th>Recommended Spreading Rate per coat:</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Lining mils (microns)</td>
<td>16.0</td>
<td>50.0</td>
</tr>
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<td>Pipe Lining mils (microns)</td>
<td>16.0</td>
<td>50.0</td>
</tr>
<tr>
<td>Coverage sq ft/gal (m²/L)</td>
<td>100</td>
<td>32</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns diff</td>
<td>1604 (39.4)</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 20.0-50.0 mils wet (500-1250 microns):

| To touch: | 6 hours | 1 hour | 35 minutes |
| To handle: | 8-12 hours | 3 hours | 55 minutes |
| To recoat: | minimum: 6 hours | 1 hour | 35 minutes |
|           | maximum: 14 days | 14 days |
| Foot traffic: | 8-12 hours | 3 hours | 1 hour |
| To cure: | 36 hours | 24 hours | 12 hours |

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent. Sterilize and rinse per AWWA C652.

Pot Life: 7 minutes
Sweat-in-Time: None required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with MEK, R6K10. Clean tools immediately after use with MEK, R6K10. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

Performance Tips

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross-coat spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build. No reduction of material is recommended as this can affect film build, appearance, and adhesion.

Striped coat all crevices, welds, and sharp angles to prevent early failure in these areas.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

Remove and solvent clean tip housing every 20-30 minutes.

For Immersion Service: (if required) Holiday test in accordance with NACE SP0188.

OAP fluorescent pigment can be used as a one or two coat system. When using OAP in a two coat system, use OAP hardener in first coat.

Refer to Product Information sheet for additional performance characteristics and properties.

Safety Precautions

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.