



**Protective
&
Marine
Coatings**



SHERPLATE PW EPOXY

WITH OPTI-CHECK OAP TECHNOLOGY

PART A	B62W260	WHITE
PART A	B62L260	BLUE
PART B	B62V260	HARDENER
PART B	B62V265	OAP HARDENER

Revised: June 18, 2015

PRODUCT INFORMATION

4.82

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 VOC
- Low odor
- Dry to walk-on within four hours
- Designed for plural-component application equipment
- Greater than 70% edge build retention
- NSF approved to standard 61 for potable water (tanks of 25 gallons or greater and pipes of 6" diameter or greater)

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	White-Base and Blue (OAP Hardener can be used with either color)
Volume Solids:	98% ± 2%, mixed
Weight Solids:	98% ± 2%, mixed
VOC (EPA method #24):	<85 g/L; 0.71 lb/gal, mixed
Mix Ratio:	1:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Tank Lining mils (microns)	16.0 (400)	50.0 (1250)
Pipe Lining mils (microns)	16.0 (400)	50.0 (1250)
~Coverage sq ft/gal (m²/L)	98 (2.4)	31 (0.8)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	1572 (38.5)	

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	
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	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

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

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 exceeds the requirements of AWWA C210
- 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	>1,000 psi
Cathodic Disbondment	ASTM G8	Passes AWWA C210 requirements
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, 2000 hours	Passes
Pencil Hardness	ASTM D3363	H
Shore D Hardness	ASTM D2240	83

Immersion (ambient temperature) for the following:

- Fresh Water..... Recommended
- Potable Water..... Recommended
- Salt Water..... Recommended
- 1% Solution of Sodium Hypochlorite..... Recommended
- AWWA C210 Chemical Solutions..... Recommended

Epoxy coatings may darken or yellow after application and curing.



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RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.
	Mils (Microns)
Steel, Immersion (AWWA C210):	
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)
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 5500 Primer
Corothane I Gavapac 1K Zinc Primer
Corothane I Galvapac 2K Zinc Primer
Zinc Clad PCP Ultra

**Acceptable Primers for Concrete:

Copoxy Shop Primer
Corobond 100
Corobond HS
Corobond LT
Dura-Plate 235
Dura-Plate UHS Primer

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

SAFETY PRECAUTIONS

Refer to the MSDS 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.

DISCLAIMER

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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 surface preparation:

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:	
Atmospheric:	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

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Rusted	D St 2	D St 2	SP 2	-
Pitted & Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-
Rusted	D St 3	D St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:
air and surface: 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) container
Part B:	5 gallon (18.9L) container
Weight:	11.71 ± 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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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Revised: June 18, 2015

APPLICATION BULLETIN

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SURFACE PREPARATIONS

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-Seam 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 Abrading 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

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 4	4
Hand Tool Cleaning	Ct St 2	Ct St 2	SP 3	-
Pitted & Rusted	D St 2	D St 2	SP 3	-
Rusted	Ct St 3	Ct St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:
air and surface: 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

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).**

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
Tip021" - .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.



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APPLICATION PROCEDURES

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 or the sides 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:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Tank Lining mils (microns)	16.0 (400)	50.0 (1250)
Pipe Lining mils (microns)	16.0 (400)	50.0 (1250)
~Coverage sq ft/gal (m ² /L)	98 (2.4)	31 (0.8)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1572 (38.5)	

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 50% RH	@ 100°F/38°C
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	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.

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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.

Stripe 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

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