



Protective & Marine Coatings

SHERPLATE 360

PART A B62-360 SERIES
 PART B B62V360 STANDARD HARDENER
 PART B B62V365 LOW TEMP HARDENER

Revised 9/09

PRODUCT INFORMATION

4.49

PRODUCT DESCRIPTION

SherPlate 360 is a 100% solids epoxy coating, formulated specifically for immersion service in refined fuel storage tanks, petroleum tanks, CHT tanks, and ballast tanks. The high build, edge-retentive properties provide superior protection compared to conventional epoxies.

- 100% solids, low VOC
- Long pot-life
- Compatible with epoxy and select alkyd topcoats
- Outstanding application properties
- 1:1 mix, airless spray
- HAPS Free

PRODUCT CHARACTERISTICS

Finish: Gloss
Color: Buff, Red Oxide, Black, Gray
Volume Solids (Theoretical): 100%, mixed
Weight Solids (Theoretical): 100%, mixed
VOC (EPA method #24): <100 g/l; .83 lb/gal, mixed
Mix Ratio: 1:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 125	10.0 250
Dry mils (microns)	5.0 125	10.0 250
~Coverage sq ft/gal (m²/L)	160 3.9	320 7.8
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	1600 39.2	

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

Drying Schedule @ 5.0 mils wet (125 microns):

	With B62V360 @ 50°F/10°C	@ 77°F/25°C	@ 100°F/38°C
		50% RH	
To touch:	20 hours	5 hours	2 hours
To handle:	45 hours	16 hours	3 hours
To recoat:			
minimum	45 hours	16 hours	3 hours
maximum			
w/ alkyd topcoats	14 days	14 days	7 days
w/ epoxy topcoats	60 days	60 days	30 days
w/ anti-foulants	While coating is still tacky		
To cure:	10 days	7 days	5 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 80 min. 60 min. 20 min.

Sweat-in-Time: None required

Drying Schedule @ 5.0 mils wet (125 microns):

	With B62V365 @ 35°F/1.6°C	@ 55°F/13°C	@ 77°F/25°C
		50% RH	
To touch:	18 hours	8 hours	3 hours
To handle:	5 days	24 hours	7 hours
To recoat:			
minimum	5 days	24 hours	7 hours
maximum	10 days	7 days	7 days
To cure:	7 days	7 days	7 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 50 min. @ 77°F/25°C

Sweat-in-Time: None required

PRODUCT CHARACTERISTICS (CONT'D)

Shelf Life:
 Part A: 24 months, unopened at 77°F (25°C)
 Part B (B62V360): 24 months, unopened at 77°F (25°C)
 Part B (B62V365): 12 months, unopened at 77°F (25°C)
 Store indoors at 40°F (4.5°C) to 100°F (38°C).

Flash Point: 202°F (94°C), PMCC, mixed

Reducer/Clean Up: MEK, R6K10 or R7K104 clean up only

RECOMMENDED USES

For prepared steel and concrete surfaces such as:

- Ships, Offshore & Marine structures
- Petrochem, fuel, ballast and CHT tank interiors
- Acceptable for use with Cathodic Protection Systems
- When greater than 70% edge retention is required

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP10/NACE 2

System Tested*:

2 cts. SherPlate 360 @ 10 mils (250 microns) dft per coat (with standard hardener)
 *unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D4541	2210 psi
Cathodic Disbondment	MIL-P-23236C	Pass, no disbondment
Edge Retention	Mil-Spec 23236C	>70%
Flexibility	ASTM D522	Pass 1/2 inch
Pencil Hardness	ASTM D3363	H

IMMERSION:

- | | | |
|--------------------|---|-------------|
| • Ballast Tank Mix | - | Recommended |
| • CHT Tanks | - | Recommended |
| • Crude Oil | - | Recommended |
| • Diesel Fuel | - | Recommended |
| • Methanol | - | Recommended |
| • Ethanol* | - | Recommended |
| • Fresh Water | - | Recommended |
| • Fuel Oil | - | Recommended |
| • Gasohol* | - | Recommended |
| • Gasoline* | - | Recommended |
| • MTBE | - | Recommended |
| • Sea Water | - | Recommended |

* With suitable topcoat only
 Epoxy coatings may darken or yellow after application and curing.



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APPLICATION BULLETIN

4.49

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)

Remove all oil and grease from surface by solvent cleaning per SSPC-SP 1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance use Near White Metal Blast Cleaning per SSPC-SP 10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel within 8 hours or before flash rusting occurs.

Iron & Steel (Immersion service)

Remove all oil and grease from surface by solvent cleaning per SSPC-SP 1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP 10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel within 8 hours or before flash rusting occurs.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICR1 03732, CSP 3-5. 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.

Always follow the standard methods listed below:

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.
 ICR1 03732 Concrete Surface Preparation.

Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICR1 03732, CSP 3-5.

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	Rusted C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted C St 3	C St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:

With standard hardener: 50°F (10°C) minimum, 110°F (43°C) maximum

With low temp hardener: 35°F (1.6°C) minimum, 77°F (25°C) maximum (air and surface)

Material should be 70°F (21°C) to 85°F (29°C) for optimal application

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.

Clean Up: MEK, R6K10 or R7K104
Clean up only

Airless Spray:

Unit.....68:1 Pump, minimum
 Pressure4000 –4500 psi
 Hose.....3/8" ID
 Tip.....0.019"- 0.021"
 Filter.....60 mesh
 Reduction.....not recommended

Brush: For Stripe Coat and Repair Only

Brush.....Nylon/Polyester
 Reduction.....not recommended

Roller: For Stripe Coat and Repair Only

Cover.....3/8" woven with solvent resistant core
 Reduction.....not recommended

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 with low speed power agitation. Make certain no pigment remains on the bottom of the cans. Then mix 1:1 by volume the contents of Part B to Part A. Thoroughly mix.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
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To recoat:			
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w/ alkyd topcoats	14 days	14 days	7 days
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w/ anti-foulants	While coating is still tacky		
To cure:	10 days	7 days	5 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	80 min.	60 min.	20 min.
Sweat-in-Time:	None required		

Drying Schedule @ 5.0 mils wet (125 microns):

With B62V365 @ 35°F/1.6°C @ 55°F/13°C @ 77°F/25°C

		50% RH	
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minimum	5 days	24 hours	7 hours
maximum	10 days	7 days	7 days
To cure:	7 days	7 days	7 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	50 min. @ 77°F/25°C
Sweat-in-Time:	None required

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

PERFORMANCE TIPS

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

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross 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, over thinning, climate conditions, and excessive film build.

Reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Application of the antifoulant coating should occur when the last coat of epoxy anticorrosive is still slightly tacky.

* May be applied up to 20.0 mils (500 microns) dft on horizontal surfaces

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

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

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer R6K10. Clean tools immediately after use with Reducer R6K10. Follow manufacturer's safety recommendations when using 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.

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.

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.