NAVSEA REVIEWED ASTM F-718

The Sherwin-Williams Company

SherPlate PW

PRODUCT DESIGNATIONS

Part A: B62W260 (white), B62L260 (blue)

Part B: B62V260 (standard hardener), B62V265 (OAP hardener)

MIL-PRF-23236

If this product is to be applied as part of a coating system, all components of the system must be as listed on the QPL.

This NAVSEA-REVIEWED ASTM F-718 data sheet is the only data sheet approved for use when utilizing this coating for U.S. Navy preservation projects. NAVSEA's review covers only the application process for the material. The review does not denote the material as a qualified product, nor does it constitute an approval for purchase/procurement of the material. For products on the Qualified Products List (QPL) for this MILSPEC, please refer to http://qpldocs.dla.mil/search/default.aspx.

Questions regarding modifications or updates of this ASTM F-718 shall be directed toward:

NSWCPD

NSWCPD_ASTM_F718.fct@navy.mil

ASTM F 718

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

CONTINUATION SHEET USED: ☐ YES ☒ NO

Date: 19 Feb 2014

I. GENERIC TYPE AND DESCRIPTION: Sherwin-Williams SherPlate PW

Specification Number: MIL-PRF-23236

NOTE: For Type/Grade/Class information see QPL-23236

II. MANUFACTURERS DATA:

(a) MANUFACTURER: The Sherwin-Williams Company

(b) PRODUCT DESIGNATION: Part A: B62W260 (white), B62L260 (blue) Part B: B62V260 (standard hardener), B62V265 (OAP hardener)

(c) COLOR(S): White and blue. OAP hardener available as needed for both colors.

(d) USES: Potable water tanks. Where single coat, rapid return to service, and edge protection film build properties are required.

(e) TECHNICAL SERVICE REPRESENTATIVE
(Include Telephone Nos.): 1-877-877-7115 or your local Sherwin-Williams Representative

(f) NOT RECOMMENDED FOR: CHT, seawater, fuel and other hydrocarbons.

III. PROPERTIES:

(a) % VOLUME SOLIDS (ASTM D 2697): 98%

(b) % WEIGHT SOLIDS (ASTM D 1475): 98%

(c) FLASH POINT (ASTM TEST METHOD D93): 230 ºF

(d) WEIGHT PER VOLUME (FTMS 141a4184.1): Mixed: 11.7 $\pm$ 0.3 lbs./gallon

(e) % EDGE RETENTION (MIL-PRF-23236 Appendix A): >70%

(f) SHELF LIFE: 24 months

(g) VISCOSITY (ASTM D562):

COMPONENT A: 85-135 KU's

COMPONENT B: 110-142 KU's

MIXED: N/A

(h) PACKAGING: 10 gallon kit consisting of 5 gallon container of Part A and 5 gallon container of Part B

(i) NUMBER OF COMPONENTS: 2

(j) GLOSS (ASTM D 523): High gloss (>80)

(k) STORAGE REQUIREMENTS: TEMP. MIN. 40°F MAX. 100°F

ADDITIONAL PAINT STORAGE REQUIREMENTS: Protected indoor storage.

(l) VOLATILE ORGANIC COMPOUND (VOC- EPA TEST METHOD 24): $\leq$ 85 g/L (0.67 lbs./gal)

(m) WEIGHT OF DRY FILM PER AREA (AT 1 MIL THICKNESS): 0.0073 lbs./ft²

(n) SPECIAL PROPERTIES:

Rapid cure, high build, edge rententive, single coat epoxy for potable water service.

CONTINUATION SHEET USED: ☐ YES ☒ NO

Date: 19 Feb 2014

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

(a) INITIAL: SSPC-SP10/NACE 2 Near White Metal Blast or SSPC-SP WJ-2/NACE WJ-2 Ultra High Pressure Waterjetting. Follow NAVSEA Standard Item 009-32 guidelines.

(b) TOUCH-UP: SSPC-SP11 Power Tool Clean to Bare Metal. Clean and abrade surface prior to recoating.

(c) PROFILE (ASTM D4417, Methods B or C): MIN. 2 mils MAX. 4 mils

(d) SPECIAL INSTRUCTIONS: N/A

(e) PRIMER REQUIREMENTS: N/A

(f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESTLE PATCH METHOD): 30 µS/cm (microsiemens/cm) per NAVSEA Standard Item 009-32 guidelines.

(g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWED: SSPC-SP WJ-2/L/NACE WJ-2/L

SPECIAL SAFETY PRECAUTIONS:

See Material Safety Data Sheet

V. MIXING PROCEDURES:

(a) MIXING RATIOS BY WEIGHT: N/A
BY VOLUME: 1:1

(b) INDUCTION TIME: None

(c) RECOMMENDED SOLVENT – THINNING:

NO THINNING ALLOWED	
CONFINED AREAS	NO THINNING ALLOWED
NON-CONFINED AREAS	NO THINNING ALLOWED
CLEAN UP	MAK, R6K10, or R7K104

(d) THINNING REQUIREMENTS: NO THINNING ALLOWED

(e) POT LIFE:

17 minutes @ 50ºF
7 minutes @ 77ºF
4 minutes @ 90ºF

(f) SPECIAL INSTRUCTIONS: Mix contents of each component thoroughly using power agitation prior to combining. Make certain no pigments remain on the bottom or sides of the can. When applied via plural component pump, final mixing will be performed in the static mixer. When mixing kits, mix thoroughly using power agitation and then use coating immediately ensuring the pot-life is not exceeded.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS:

SUBSTRATE TEMPERATURE: MIN. 40ºF MAX. 110ºF
AMBIENT TEMPERATURE: MIN. 40ºF MAX. 110ºF
MINIMUM SUBSTRATE TEMPERATURE DIFFERENCE ABOVE THE DEW POINT: 5ºF
MAXIMUM PERCENT RELATIVE HUMIDITY: 50% maximum per NAVSEA Standard Item 009-32 guidelines.

(b) FILM THICKNESS (SSPC PA2-73T) -

PER COAT:
WET MIN. 20 mils WET MAX. 30 mils
DRY MIN. 20 mils DRY MAX. 30 mils

TOTAL SYSTEM:
DRY MIN. 20 mils DRY MAX. 30 mils

(c) DRY TIMES (ASTM D 1640):

Figure 1. SherPlate PW Minimum Dry to Recoat Times

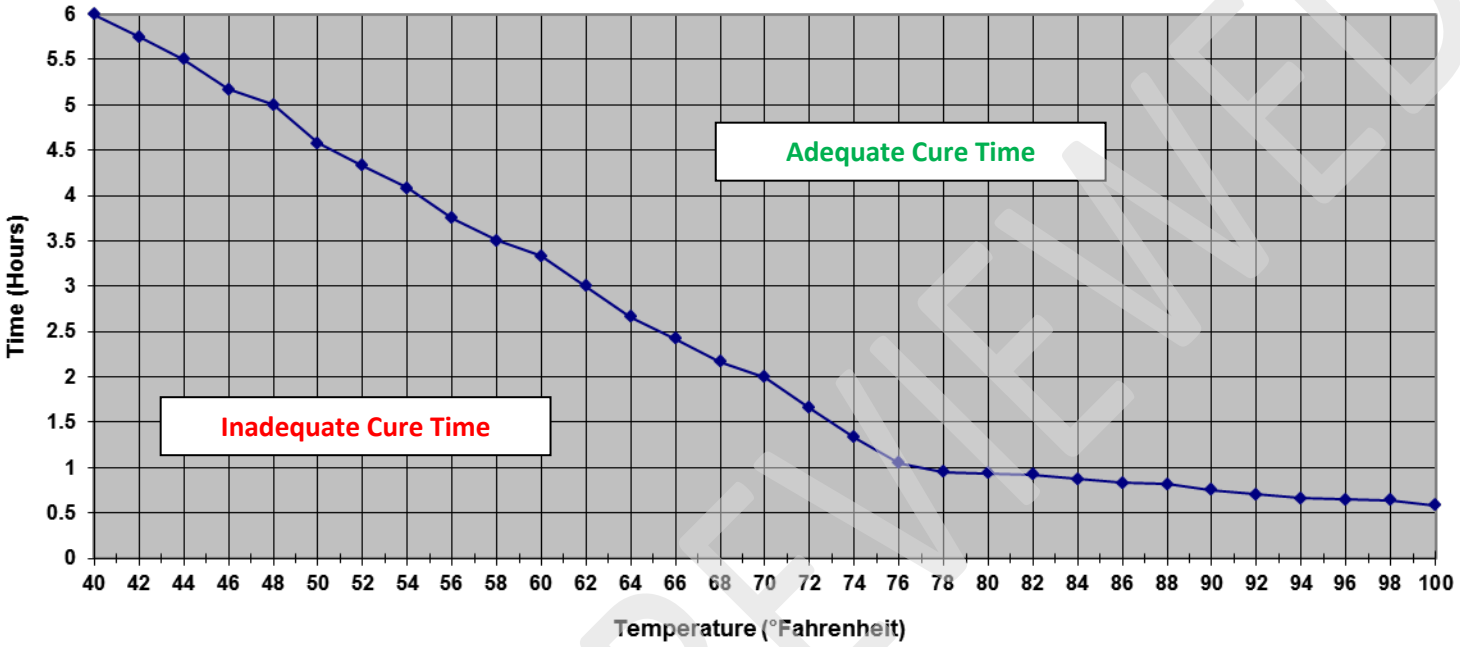


Figure 2. SherPlate PW Minimum Dry to Handle Times

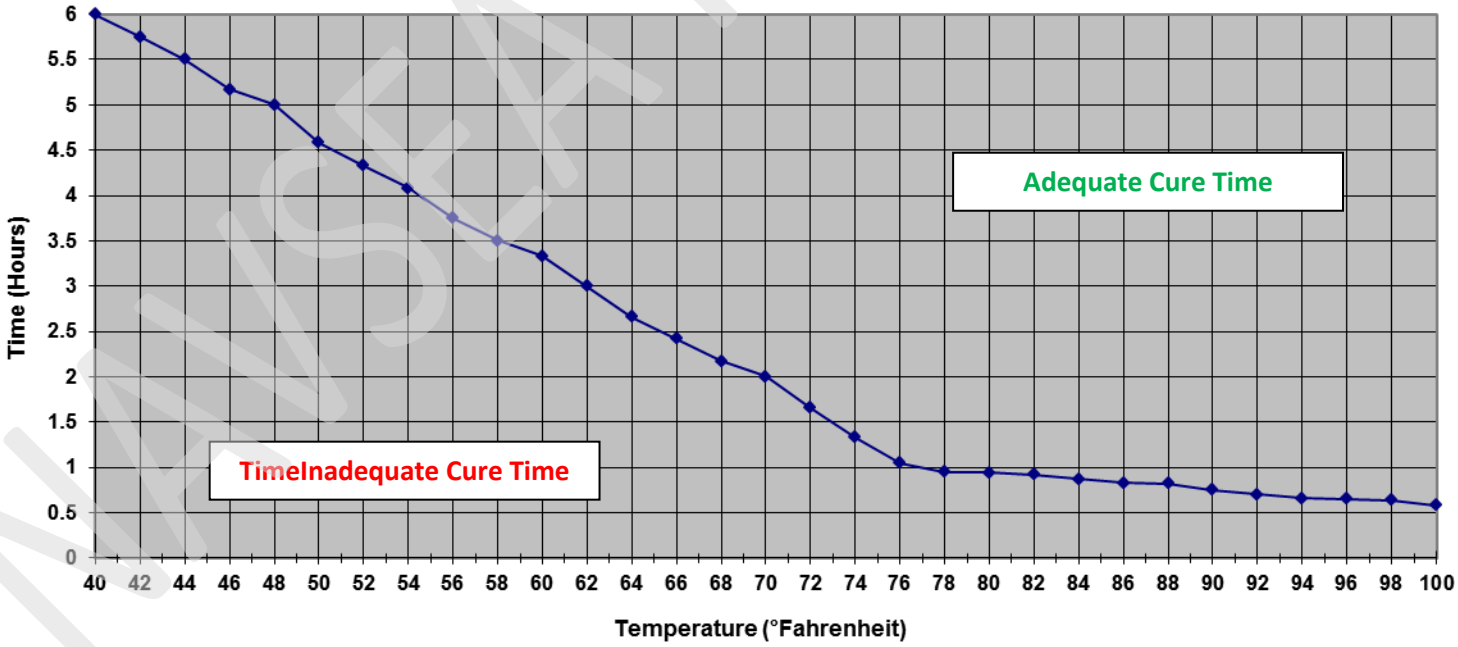


Figure 3. SherPlate PW Maximum Cure to Recoat Time

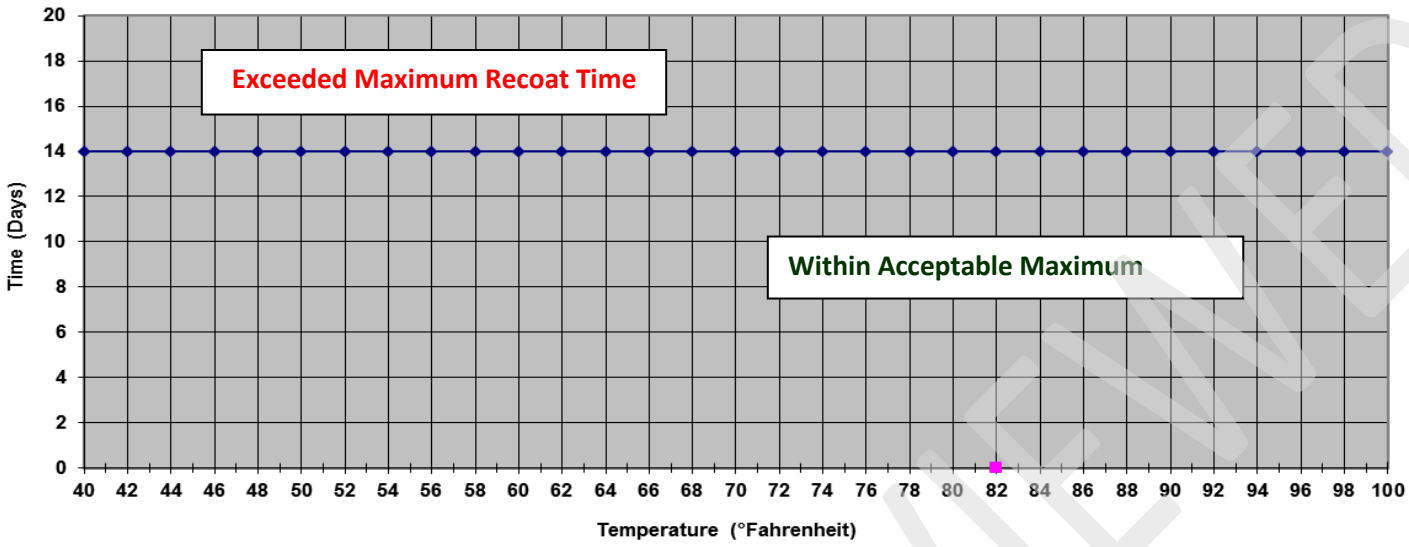
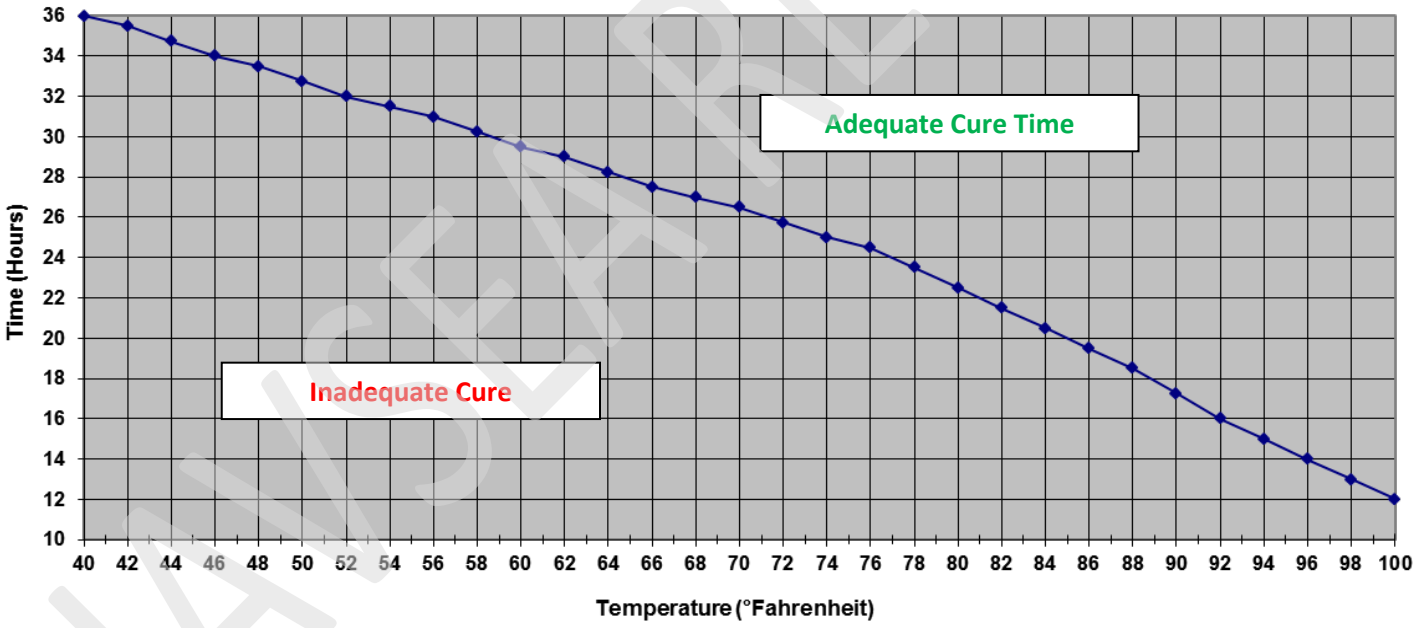


Figure 4. SherPlate PW Minimum Cure to Full Service Time



The above curing schedules (Figures 1-4) are at 20.0 mils and 50% relative humidity.
Drying time is temperature, humidity, and film thickness dependent.
The above information is provided for guideline use only.

CONTINUATION SHEET USED: ☐ YES ☒ NO

Date: 19 Feb 2014

(d) EQUIPMENT REQUIREMENTS: Heated plural component pump required for airless spray applications, not for touch-up. Heated lines not required.

(e) SPECIAL INSTRUCTIONS –

Material recommended to be 95°F to 105°F at the gun for optimal application with a range of 85°F to 120° F acceptable based on tip size and pump pressure. Start at lower temperatures and raise temperature as necessary to achieve proper atomization. Do not exceed material temperatures of 130°F either at the gun or in the material hoppers. Excessive material temperatures will likely result in the coating setting and seizing the line/gun. Also, excessive material temperatures can potentially compromise adhesion of the coating to the substrate.

To ensure proper mixing of the two components, it is recommended that material temperatures in the hoppers be maintained within 20°F relative to one another. For example, Part A material hopper temperature is 80°F. Part B material hopper temperature recommended to be between is 60°F and 100°F.

REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: Clean surface of coating per SSPC-SP1 and allow surface to dry. Using 80 grit sandpaper or equivalent, aggressively abrade surface to promote adhesion. Clean surface of coating per SSPC-SP1 and allow to dry completely prior to applying next coat.

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

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ADDITIONAL DATA/INSTRUCTIONS:

II. MANUFACTURERS DATA:

ADD ADDITIONAL COMMENTS FROM PART II HERE:

III. PROPERTIES:

ADD ADDITIONAL COMMENTS FROM PART III HERE:

Note that viscosity is value dependent upon temperature, type of measuring equipment, type of paddle or spindle, sample history, and test container size. Detailed test criteria available upon request.

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBERS):

ADD ADDITION COMMENTS FROM PART IV HERE:

V. MIXING PROCEDURES

ADD ADDITIONAL COMMENTS FROM PART V HERE:

VI. APPLICATION REQUIREMENTS

ADD ADDITIONAL COMMENTS FROM PART VI HERE:

WARRANTY DISCLAIMER: THE TECHNICAL DATA GIVEN HEREIN HAS BEEN COMPILED FOR THE ASSISTANCE OF THE USER AND GUIDANCE IS BASED ON THE EXPERIENCE AND KNOWLEDGE OF THE MANUFACTURER. HOWEVER, AS THE MANUFACTURER HAS NO CONTROL OVER THE USE OF THIS INFORMATION, NO WARRANTY EXPRESSED OR IMPLIED IS INTENDED OR GIVEN.

Sherwin-Williams ASTM F718 Addendum
*Use of CHLOR*RID Salt Remover*
January 24, 2018

Per 009-32 FY-18 CH-1 section 3.10.6.6 (and similarly noted in other FY versions of 009-32), the use of CHLOR*RID salt remover is authorized. Sherwin-Williams provides this document as an ASTM F718 addendum for the following Sherwin-Williams MIL-PRF-23236 qualified products:

Fast Clad ER
Fast Clad Primer
Fast Clad Brush Grade
SherPlate PW
DuraPlate UHS Primer
DuraPlate UHS
NovaPlate UHS Primer
NovaPlate UHS
EuroNavy ES301 Series
SeaGuard 5000 HS
DuraPlate 235
ExpressCote 150

When used in accordance with the manufacturers and the following instructions, Sherwin-Williams approves the use of CHLOR*RID, in conjunction with the above products, for U.S. Navy related projects:

1. CHLOR*RID is added to wash water at appropriate level per product recommendation.

2. After water washing with CHLOR*RID, allow substrate to fully dry. ALL treated substrate surfaces MUST be abrasive blasted to an SSPC-SP10 Near White Metal condition post CHLOR*RID application.

3. Failure to reblast all treated surfaces, regardless of their condition post CHLOR*RID application, voids these instructions and subsequent implied or direct warranties.

4. Accomplish surface conductivity checks as required per 009-32 after SSPC-SP10 Near White Metal reblast. Follow pass/fail criteria established in 009-32 including additional remedial steps as necessary.

5. Please see appropriate references in NAVSEA Standard Item 009-32.

Mark Schultz
Government Marine Manager
Sherwin-Williams