NAVSEA REVIEWED ASTM F-718

The Sherwin Williams Company

SeaGuard Ablative Antifoulant

P30RQ10 / P30RQ12 / P30RQ13

MIL-PRF-24647

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 https://assist.daps.dla.mil/quicksearch/. Questions regarding modifications or updates of this ASTM F-718 shall be directed toward:

NST Center
(502) 638-4400
F718Admin@nstcenter.com

SHERWIN-WILLIAMS Protective & Marine Coatings

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

CONTINUATION SHEET USED: ☒ YES ☐ NO

Date: 5/13/10 Rev.

I. GENERIC TYPE AND DESCRIPTION: Ablative Antifoulant
Specification Number, Type, Class and/or Grade (If Applicable): MIL-PRF-24647

II. MANUFACTURERS DATA:

(a) MANUFACTURER: The Sherwin-Williams Company

(b) PRODUCT DESIGNATION: SeaGuard Ablative Antifoulant; P30RQ10 Red, P30BQ12 Black, P30LQ13 Blue

(c) COLOR(S): Red, Black, and Blue

(d) USES: Antifoulant

(e) TECHNICAL SERVICE REPRESENTATIVE
(Include Telephone Nos.): 877-877-7115

(f) NOT RECOMMENDED FOR: Potable water, topside, interior habitability spaces

III. PROPERTIES:

(a) % VOLUME SOLIDS (ASTM D 2697): 65 ± 2%

(b) % WEIGHT SOLIDS (ASTM D 1475): 81 ± 2%

(c): FLASH POINT (ASTM TEST METHOD D 93 OR D 56 OR D 3278): 72°F

(d): WEIGHT PER VOLUME: (FTMS 141a4184.1): 18.5 ± 0.5 lbs/gal

(e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION): N/A

(f): SHELF LIFE: 24 months

(g) VISCOSITY (STATE TEST METHOD TO BE USED): COMPONENT A: 80-100 KU's per ASTM D562

COMPONENT B: N/A (single component product)

MIXED: N/A (single component product)

(h) PACKAGING: 5 gallon container

(i): NUMBER OF COMPONENTS: 1

(j) GLOSS (ASTM D 523): Low gloss (less than 30)

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

ADDITIONAL PAINT STORAGE REQUIREMENTS: Protected storage

(l) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): < 400 g/L

(m) WEIGHT OF DRY FILM (WEIGHT/FT^2 AT 1 MIL THICKNESS): 0.0144 lbs

(n): SPECIAL PROPERTIES (e.g., STAIN RESISTANCE, LOW SOLAR ABSORBANCE, MOISTURE TOLERANCE): Antifoulant

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

(a) INITIAL - SSPC-SP 10 near-white metal blast for immersion

(b) TOUCH-UP - SSPC-SP 11 Power tool clean to bare metal. Clean and abrade surface prior to recoating.

(c) PROFILE (INCLUDE METHOD USED) - MIN. 2 mils MAX. 4 mils

(d) SPECIAL INSTRUCTIONS - Profile: 2-4 mil profile recommended; no less than 1 mil or greater than 5 mils profile acceptable.

The first coat of SeaGuard Ablative must be applied over the epoxy primer, while the epoxy is still slightly tacky.

(e) PRIMER REQUIREMENTS (IF APPLICABLE): Sherwin-Williams SeaGuard 5000 HS

(f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESLE PATCH METHOD): Follow NAVSEA Standard Item 009-32 guidelines.

(g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWABLE (LIST COMMERCIAL STANDARD): SSPC-SP12 WJ2L

SPECIAL SAFETY PRECAUTIONS:
See Material Safety Data Sheet

V. MIXING PROCEDURES:

(a) MIXING RATIOS BY WEIGHT – N/A
BY VOLUME – N/A

(b) INDUCTION TIME – N/A

(c) RECOMMENDED SOLVENT – THINNING – NO THINNING ALLLOWED
CONFINED AREAS - NO THINNING ALLOWED
NON-CONFINED AREAS - NO THINNING ALLOWED
CLEAN UP – VM&P Naphtha, R1K3

(d) THINNING REQUIREMENTS (RATIO) – NO THINNING ALLOWED

(e) POT LIFE – N/A

(f) SPECIAL INSTRUCTIONS – Mix contents thoroughly using power agitation. Make certain no pigments remain on the bottom or sides of the can.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS -

SUBSTRATE TEMPERATURE: MIN. 35°F MAX. 120°F

MINIMUM SUBSTRATE TEMPERATURE DIFFERENCE ABOVE THE DEW POINT 5°F

RELATIVE HUMIDITY: No minimum or maximum. Observe dew point restrictions.

AMBIENT TEMPERATURE: MIN. 35°F MAX. 120°F

(b) FILM THICKNESS (SSPC-PA 2):

PER COAT:
WET MIN. 6 mils WET MAX. 9 mils

DRY MIN. 4 mils DRY MAX. 6 mils

TOTAL SYSTEM:
DRY MIN. DRY MAX. (See NAVSEA Standard Item 009-32 for system DFT requirements)

(c) DRY TIMES (ASTM D 1640) –

1) DRY TO RECOAT (See graph below)
2) DRY TO HANDLE (See graph below)
3) MAXIMUM RECOAT (Not required, no maximum recoat)
4) CURE TO FULL SERVICE (See graph below)

(d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE, NOT SUITABLE REQUIREMENTS) – Airless spray, brush, roll

IF PLURAL COMPONENT EQUIPMENT IS REQUIRED, STATE SO – Not required

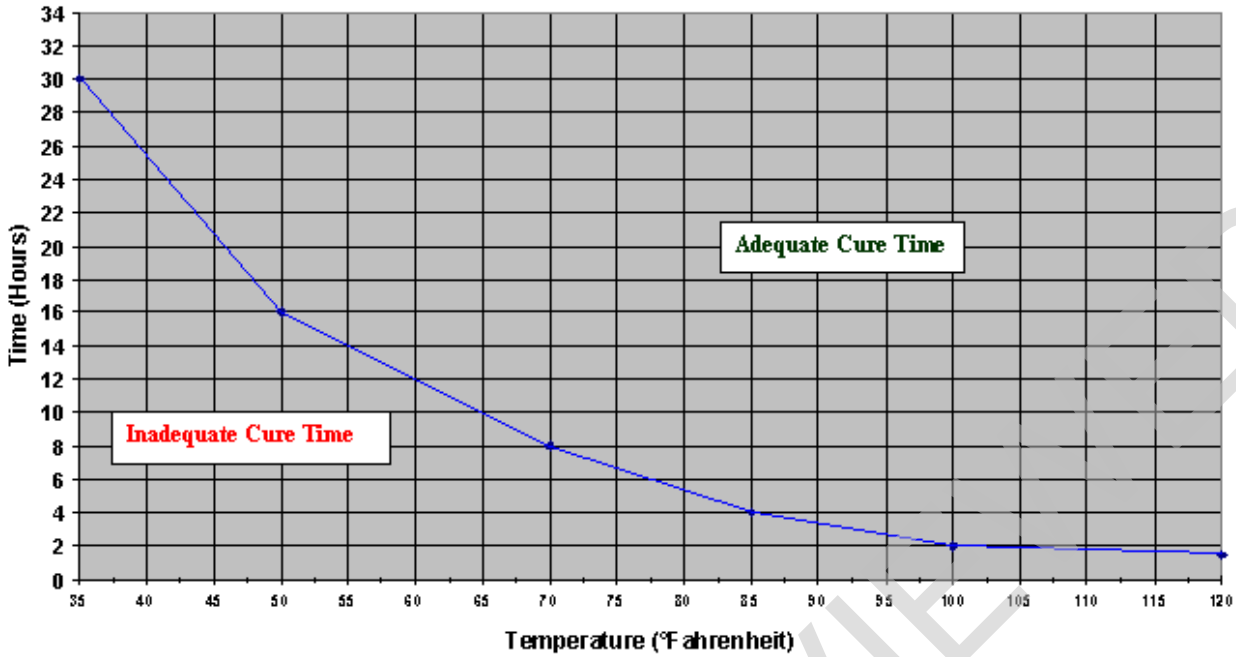
IF HEATED LINES ARE REQUIRED, STATE SO – Not required

(e) SPECIAL INSTRUCTIONS - The first coat of SeaGuard Ablative must be applied over the epoxy primer, while the epoxy is still slightly tacky. No surface ice, moisture, or condensation is allowed on the surface during application.

Note that 35°F has been listed as the minimum temperature as required per NAVSEA Standard Item 009-32 and for graph creation purposes. SeaGuard Ablative can be applied at lower temperatures than 35°F providing dew point restrictions are followed and that no surface ice, moisture, or condensation is allowed on the surface during application.

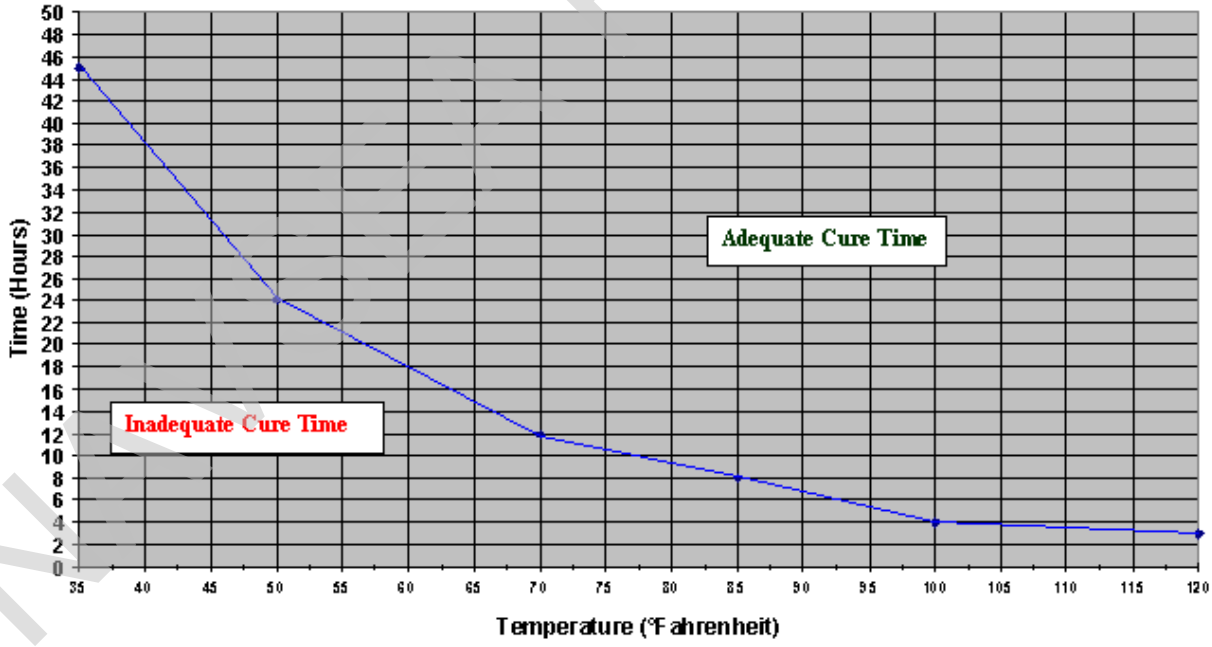
REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: Rinse using high pressure (~3000 psi), fresh water cleaning, which will also remove any weak outer layer of leached or chalked antifouling. Allow the surface to dry before overcoating.

Figure 1 & 2. Seaguard Ablative Minimum Cure to Recoat & Handle Time



The above curing schedule is at 6.0 mils wet and 50% relative humidity.
Drying time is temperature, humidity, and film thickness dependent.
The above information is provided for guideline use only.

Figure 4. Seaguard Ablative Minimum Cure to Immersion/Undock Time



The above curing schedule is at 6.0 mils wet and 50% relative humidity.
Drying time is temperature, humidity, and film thickness dependent.
The above information is provided for guideline use only.

ASTM F 718 CONTINUATION SHEET FOR

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

Date 05/13/10 Rev.

I. GENERIC TYPE AND DESCRIPTION: Ablative Antifoulant
Specification Number (If Applicable): MIL-PRF-24647

ADDITIONAL DATA/ INSTRUCTIONS:

II. MANUFACTURERS DATA:

ADD ADDITIONAL COMMENTS FROM PART II HERE N/A

III. PROPERTIES:

ADD ADDITIONAL COMMENTS FROM PART III HERE N/A

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

ADD ADDITIONAL COMMENTS FROM PART IV HERE N/A

V. MIXING PROCEDURES

ADD ADDITIONAL COMMENTS FROM PART V HERE N/A

VI. APPLICATION REQUIREMENTS

ADD ADDITIONAL COMMENTS FROM PART VI HERE See below.

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.