

Randolph Products

Randogrip Navy G Nonskid

PRODUCT DESIGNATIONS

Part A: 600D01

Part B: 610C01

MIL-PRF-24667

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://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

I. GENERIC TYPE AND DESCRIPTION: Nonskid Specification Number: MIL-PRF-24667 NOTE: For Type/Grade/Class/Application information see QPD-QPD-24667	Date: 10/14/2021
II. MANUFACTURERS DATA: (a) MANUFACTURER: Randolph Products 33 Haynes Circle Chicopee, MA 01020 (b) PRODUCT DESIGNATION: Randogrip Navy G Part A: 600D01; Part B: 610C01 (c) COLOR(S): Dark Gray (SAE-AMS-595A- 36076) (d) USES: Nonskid Deck Coating (e) TECHNICAL SERVICE REPRESENTATIVE: Carol Rosler Phone: 413-592-4191; Fax: 413-594-7321; E-mail crosler@randolphproducts.com; Website: www.randolphproducts.com	
III. PROPERTIES: (a) PERCENT VOLUME SOLIDS (ASTM D2697): 76 +/- 1 % (b) PERCENT WEIGHT SOLIDS (ASTM D2369): 90 +/- 1 % (c) FLASH POINT (ASTM D3278): Part A: 102 °F (>39 °C) Part B: 104 °F (40 °C) Mixed: 104 °F (>39 °C) (d) WEIGHT PER VOLUME (ASTM D1475): Part A: 19.4 +/- 0.4 lb/gal (2325 +/- 48 g/L) Part B: 8.37 +/- 0.2 lb/gal (1003 +/- 24 g/L) Mixed: 18.7 +/- 0.3 lb/gal (2241 +/- 36 g/L) (e) PERCENT EDGE RETENTION, IF REQUIRED BY APPLICABLE SPECIFICATION (N/A): N/A % (f) SHELF LIFE: 12 Months (g) VISCOSITY (ASTM D2196): Part A : 80,000 – 100,000 cps @ 25 °C (77 °F) Part B : 30,000 min. cps @ 25 °C (77 °F) Mixed : 80,000 – 90,000 cps @ 25 °C (77 °F) (h) PACKAGING: 5 gallon pail kits 3.55 gallons Part A; 0.45 gallons Part B or 6 ½ gallon pail kits 4.07 gallons Part A; 0.515 gallons Part B (i) NUMBER OF COMPONENTS: 2 (j) GLOSS (ASTM D523): N/A GU (k) STORAGE REQUIREMENTS: TEMPERATURE: 40 °F (4.4 °C) MIN. 100 °F (37.8 °C) MAX. ADDITIONAL PAINT STORAGE REQUIREMENTS: Cooler temperatures will extend pot life	

- (l) VOLATILE ORGANIC COMPOUNDS (VOCs- EPA TEST METHOD 24): 1.6 lb/gal (192 g/L)
- (m) WEIGHT PER AREA OF DRY FILM AT 1 MIL THICKNESS: 0.014 lb/sq. ft. (6.36 g/m²)
- (n) SPECIAL PROPERTIES: N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

- (a) INITIAL CLEANLINESS: Remove grease, oil and dirt by solvent cleaning SSPC-SP1.
- (b) TOUCH-UP CLEANLINESS: In hard to reach areas, use power tool, chipping sanding descaling and grinding (SSPC-SP 11)
- (c) PROFILE (N/A): N/A mils MIN. N/A mils MAX.
- (d) SPECIAL INSTRUCTIONS: N/A
- (e) PRIMER REQUIREMENTS: Randogrip Navy Metal Primer. Consult the ASTM F718 of Randogrip Navy Metal Primer for specific information.
- (f) MAXIMUM ALLOWABLE CONDUCTIVITY (ASTM ISO 8502-9):
70 micro-siemens/cm
- (g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWED: N/A

SPECIAL SAFETY PRECAUTIONS:

CAUTIONS TO BE TAKEN IN HANDLING AND STORING: Read SDS before use. Do not get in eyes. Avoid contact with skin and clothing. Avoid inhalation of vapors or mist. Use with adequate ventilation. Wash hands thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing and wash before use. Keep away from flame or other ignition source. Avoid extreme heat.

V. MIXING PROCEDURES

- (a) MIXING RATIOS BY WEIGHT: 18:1 (Part A:Part B)
BY VOLUME: 7.9:1 (Part A: Part B)
- (b) INDUCTION TIME: 0 Minutes
- (c) RECOMMENDED CLEANING SOLVENT (NO THINNING ALLOWED): Propylene Glycol Monomethyl Ether; Aromatic Naphtha or Methyl n-Amyl Ketone
- (d) POT LIFE: see values below
1.5 Hours @ 100 °F (37.8 °C)
4 Hours @ 70 °F (21 °C)
6 Hours @ 50 °F (10 °C)
Graphs included on page: 4
- (e) SPECIAL INSTRUCTIONS: Pre-mix the base component, Part A to ensure all materials which may have settled during shipment and storage are lifted from the bottom of the container. Use high torque drill suitable for mixing heavy materials. A jiffy blade or vortex paddle should be used for mixing. Mix Part A and Part B together for a minimum of 3 – 5 minutes or until the mixed material assumes a uniform color and appearance. Scrape the sides of the pail to ensure the material is thoroughly mixed. Warning: Improperly mixed material will not cure or perform properly.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS:

SUBSTRATE TEMPERATURE: 40°F (4.4°C) MIN. 120°F (48.8°C) MAX.
 AMBIENT TEMPERATURE: 55°F (12.8°C) MIN. 100°F (37.8°C) MAX.
 DIFFERENCE ABOVE THE DEW POINT: 5 °F (-15 °C)
 MAXIMUM PERCENT RELATIVE HUMIDITY: 85 %

(b) FILM THICKNESS (SSPC PA2-73T): PER COAT:

N/A mils WET MIN. N/A mils WET MAX.

N/A mils DRY MIN. N/A mils DRY MAX.

TOTAL SYSTEM:

N/A mils DRY MIN. N/A mils DRY MAX.

(c) DRY TIMES (ASTM D1640):

Minimum Overcoat Window:

24 Hours @ 40 °F (4.4°C)
 12 Hours @ 70 °F (21.1°C)
 6 Hours @ 120 °F (48.8°C)

Maximum Overcoat Window:

336 Hours @ 40 °F (4.4°C)
 168 Hours @ 70 °F (21.1°C)
 72 Hours @ 120 °F (48.8°C)

Dry to Handle:

24 Hours @ 40 °F (4.4°C)
 12 Hours @ 70 °F (21.1°C)
 6 Hours @ 120 °F (48.8°C)

Dry to Service:

336 Hours @ 40 °F (4.4°C)
 168 Hours @ 70 °F (21.1°C)
 72 Hours @ 120 °F (48.8°C)

Graphs included on page 4, 5 and 6 or additional information included on page N/A

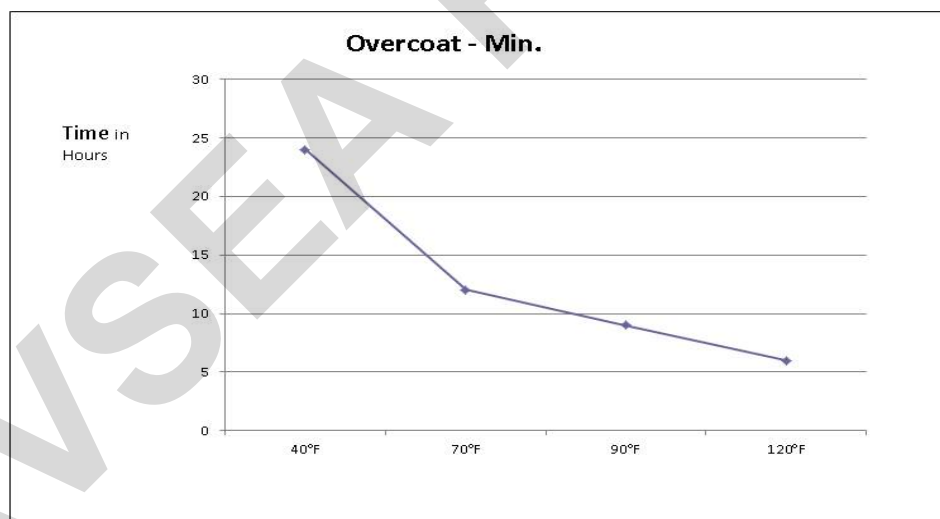
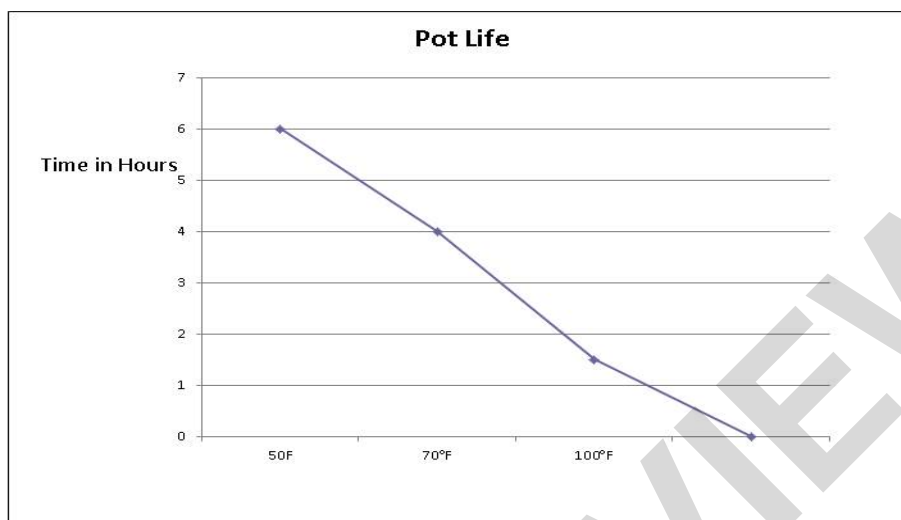
- (d) EQUIPMENT REQUIREMENTS: For roller application use phenolic roller. For spray application, a pressure pot with bottom feed tank or S6MM Nonskid Sprayer from Pentech can be used. Equipment settings for use of Pentech Equipment are CFM: 75 – 80 psi and pump pressure 30 psi. Equipment settings for use with pressure pot are minimum 5 gallon bottom outlet pressure pt with an air driven agitator. Air line should be a maximum of 25 feet 3/8" hose and the fluid line should be a maximum of 25 feet of 3/4" hose. The spray gun should be equipped with a 1/4" fluid nozzle and a 1/4" internal air cap. The following settings should be used: CFM: 20 psi and pump pressure: 70 psi.

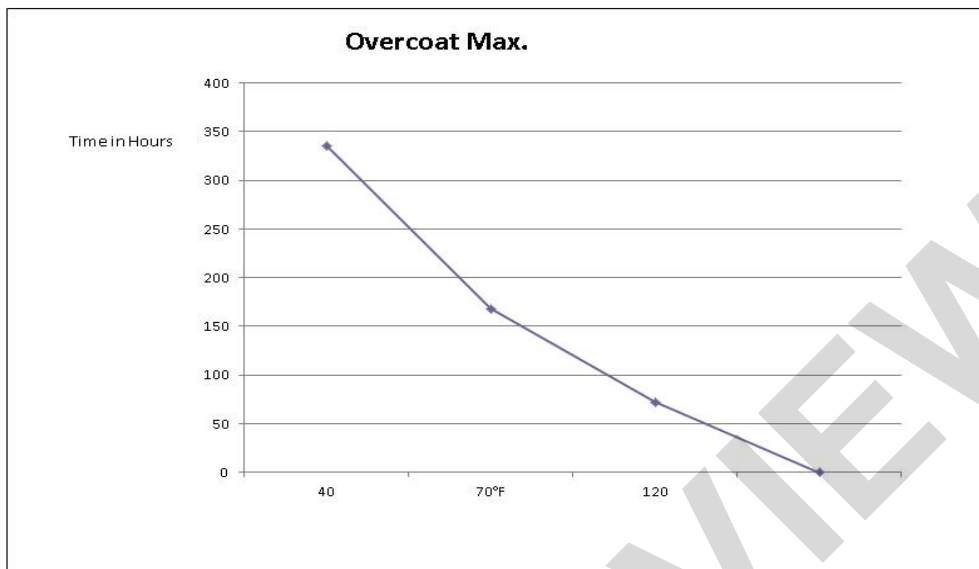
(e) SPECIAL INSTRUCTIONS:

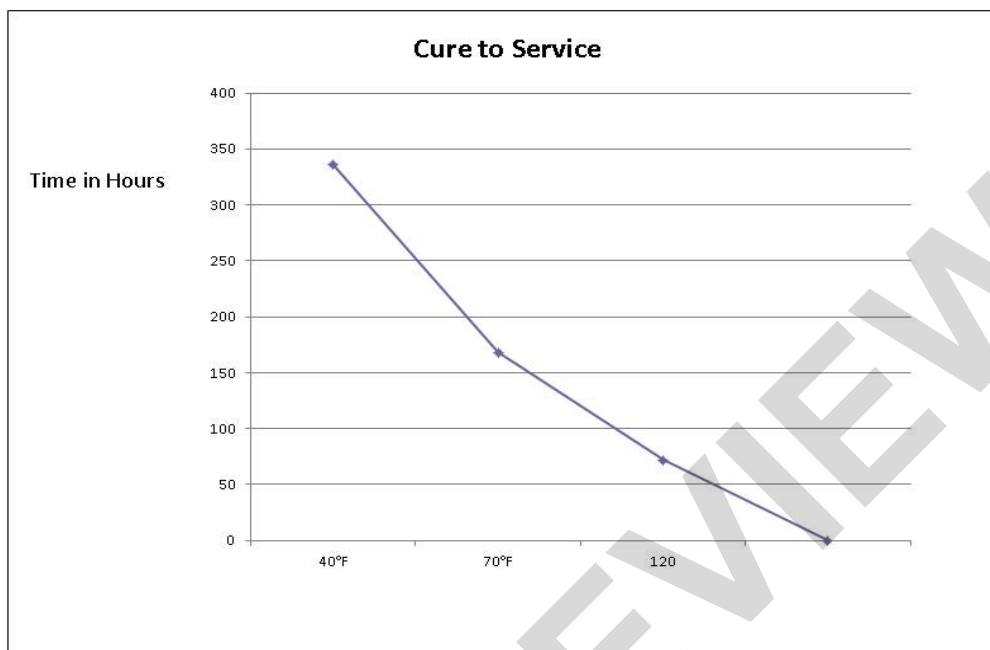
IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR CRITICAL APPLICATIONS: If less than 7 days has elapsed since the primer application, nonskid may be applied after visual inspection to confirm the absence of surface contaminants. Any surface contaminants should be cleaned in accordance with SSPC-SP 1. Nonskid should be applied after the surface is completely dry. If more than 7 days, but less than 30 days has elapsed since the primer application, the entire surface shall be cleaned per SSPC-SP 1. Once the surface has dried, it should be lightly abraded with abrasive blast or sanding. The area should then be solvent cleaned and allowed to dry completely. A tack coat of 2 – 3 mils of primer shall be applied. Nonskid shall be applied over the primer once the primer is thumbnail hard (slight indentation left by fingernail in the coating.)

IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR NON-CRITICAL APPLICATIONS: N/A

GRAPHS FOR POT LIFE AND CURE TIMES:







ADDITIONAL DATA/INSTRUCTIONS:

I. GENERIC TYPE AND DESCRIPTION: N/A

II. MANUFACTURERS DATA: Randogrip Color Topping can be used for all color markings.

III. PROPERTIES: N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS: N/A

V. MIXING PROCEDURES: Use clean A-A-59986 mixing system and mixing blade to premix Part A for 6 minutes, or until it is verified that the A component is uniformly mixed and free of clumps. Mixing speed shall be approximately 100 RPM. Using the same blade pour Part B into the Part A can and mix for 6 minutes at higher speed until the mixture has a uniform color and appearance free of clumps. Scrape nonskid from can edge into the bulk and mix for an additional 2 minutes at high speed. The mixture shall be uniform in color and appearance. Note: the mixing blade should be cleaned between pails with a brush and clean rags.

VI. APPLICATION: Dry times are normally a function of humidity, ventilation and temperature. The information given is to used as a guideline only.