

**Mascoat Products, Inc.**

**Delta T Marine Insulating Coating  
Advanced Coating Message –  
COMNAVSEASYS COM WASHINGTON DC  
180518Z AUG 08**

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MIL-PRF-24596 (Pending)

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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](mailto: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: 10 Oct 08 Rev.

## I. GENERIC TYPE AND DESCRIPTION: Insulating Coating

Specification Number, Type, Class and/or Grade (If Applicable): MIL-PRF-24596

## II. MANUFACTURERS DATA:

- (a) MANUFACTURER: Mascoat Products
- (b) PRODUCT DESIGNATION: Delta T Marine Insulating Coating
- (c) COLOR(S): White, Light Gray, Gray
- (d) USES: Anti-condensation
- (e) TECHNICAL SERVICE REPRESENTATIVE  
(Include Telephone Nos.): Harley O'Neill, 713-465-0304
- (f) NOT RECOMMENDED FOR: NA

## III. PROPERTIES:

- (a) % VOLUME SOLIDS (ASTM D 2697): 80-82%
- (b) % WEIGHT SOLIDS (ASTM D1475): 53%
- (c) FLASH POINT (ASTM TEST METHOD D 93 OR D 56 OR D 3278): None
- (d) WEIGHT PER VOLUME: (FTMS 141a4184.1): 5.1 – 5.2 lbs/gallon
- (e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION): NA
- (f) SHELF LIFE: 1 Year
- (g) VISCOSITY (Brookfield): 10,200 centipoise @ 20 rpm
- (h) PACKAGING: 5 gallons
- (i) NUMBER OF COMPONENTS: 1
- (j) GLOSS (ASTM D523): 15-20%
- (k) STORAGE REQUIREMENTS: TEMP. MIN. 65°F MAX. 85°F  
ADDITIONAL PAINT STORAGE REQUIREMENTS: Product should be kept out of direct sunlight and should not be allowed to freeze.
- (l) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): 0.0 lbs/gal
- (m) WEIGHT OF DRY FILM (WEIGHT/FT<sup>2</sup> AT 1 MIL THICKNESS): .00185 lbs/sqft
- (n) SPECIAL PROPERTIES (e.g., STAIN RESISTANCE, LOW SOLAR ABSORBANCE, MOISTURE TOLERANCE): Low solar absorbance, insulating qualities, low permeability, low water vapor transmission, anti-condensation coating/material

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

- (a) INITIAL – Refer to NAVSEA Standard Item 009-32
- (b) TOUCH-UP - Refer to NAVSEA Standard Item 009-32
- (c) PROFILE (INCLUDE METHOD USED) - Refer to NAVSEA Standard Item 009-32
- (d) SPECIAL INSTRUCTIONS - None
- (e) PRIMER REQUIREMENTS (IF APPLICABLE): CARBON STEEL: Surfaces should be primed prior to application of Delta T Marine, as this coating is water-based and flash rusting may occur if applied directly to carbon steel. Surface preparation is dependent on primer.
- (f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESLE PATCH METHOD): N/A (Product is a topcoat only. Surface preparation is dependent on primer).
- (g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWABLE (LIST COMMERCIAL STANDARD): No flash rusting allowed.

SPECIAL SAFETY PRECAUTIONS:  
REFER TO MATERIAL SAFETY DATA SHEET

## V. MIXING PROCEDURES:

- (a) MIXING RATIOS BY WEIGHT – NA; coating is single-component  
BY VOLUME – NA; coating is single-component
- (b) INDUCTION TIME – None; coating is single-component
- (c) RECOMMENDED SOLVENT – THINNING - None  
  CONFINED AREAS - None  
  NON-CONFINED AREAS - None  
  CLEAN UP - Water
- (d) THINNING REQUIREMENTS (RATIO) – NO THINNING ALLOWED
- (e) POT LIFE – NA; single-component product
- (f) SPECIAL INSTRUCTIONS – Mix with Mascoat Products-approved mud mixing paddle. Mixing should be only enough to achieve smooth consistency.

## VI. APPLICATION:

- (a) ENVIRONMENTAL LIMITATIONS -

SUBSTRATE TEMPERATURE FOR APPLICATION: MIN. 50°F MAX. 200°F

MINIMUM SUBSTRATE TEMPERATURE DIFFERENCE ABOVE THE DEW POINT: 5°F

RELATIVE HUMIDITY: MIN. 0% MAX. 85%

AMBIENT TEMPERATURE: MIN. 50°F MAX.:None

Note: Although minimum substrate and ambient temperatures of 50°F are acceptable, 60°F is preferable.

- (b) FILM THICKNESS (SSPC-PA2):

PER COAT:

WET MIN. 8 mils WET MAX. 24 mils

DRY MIN. 6 mils DRY MAX. 20 mils

TOTAL SYSTEM:

DRY MIN. No limit DRY MAX. No limit

- (c) DRY TIMES (ASTM D 1640) – See attachment

(d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE, NOT SUITABLE REQUIREMENTS) - Airless spray is the best means of application for this coating. A special small sprayer can be used. Contact Mascoat Products for this unit: SA GUN KIT. The small sprayer is intended for jobs under 10 ft². An airless pump with a ratio of at least 33:1 and a pump volume of 1.0 gpm or greater is required.

IF PLURAL COMPONENT EQUIPMENT IS REQUIRED, STATE SO - NA

IF HEATED LINES ARE REQUIRED, STATE SO - NA

(e) **SPECIAL INSTRUCTIONS** - Dry time between coats is dependent on temperature and humidity. The chart below is a good guideline. However, the thumb placement technique provides the best indication of the coating's condition. To check for dry condition, place thumb onto coating and exert slight pressure. Turn thumb 90° while applying pressure. Remove thumb; if coating has an obvious depression, adheres to thumb or tears on the coated surface, the coating is not dry. Practice this until no depression or coating is present on thumb.

PROVIDE INFORMATION FOR REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: Remove any damaged areas and make repairs to substrate. Clean any excess dirt, oil, damaged coatings, and any foreign matter. Prime area if needed (see application instructions) and touch up small areas with a paint brush or sprayer, following Mascoat application instructions. Build coating thickness in 20 mil coats until proper thickness is achieved. If overcoating over existing coating, there is no time limit to overcoat. Make sure coating is clean and free of any dirt, oil, water, or foreign matter, then follow Mascoat application instructions for Delta T Marine.

ASTM F 718 CONTINUATION SHEET FOR

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

Date 10 Oct 08 Rev.

I. GENERIC TYPE AND DESCRIPTION: Insulating Coating  
Specification Number (If Applicable): MIL-PRF-24596

ADDITIONAL DATA/ INSTRUCTIONS:

II. MANUFACTURERS DATA:

ADD ADDITIONAL COMMENTS FROM PART II HERE

III. PROPERTIES:

ADD ADDITIONAL COMMENTS FROM PART III HERE

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

ADD ADDITIONAL COMMENTS FROM PART IV HERE

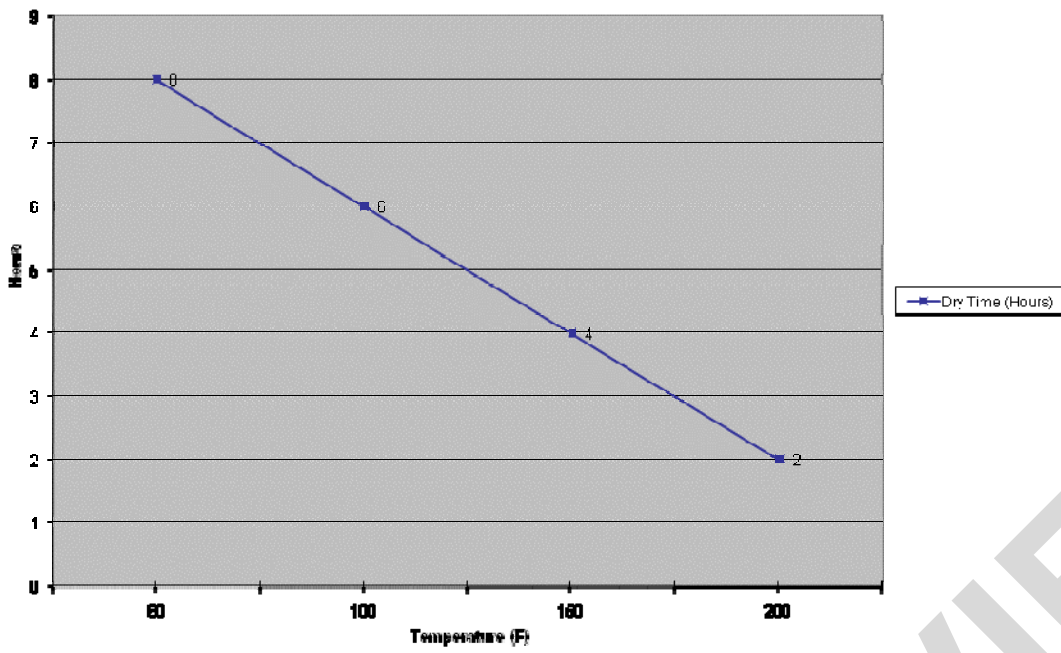
V. MIXING PROCEDURES

ADD ADDITIONAL COMMENTS FROM PART V HERE

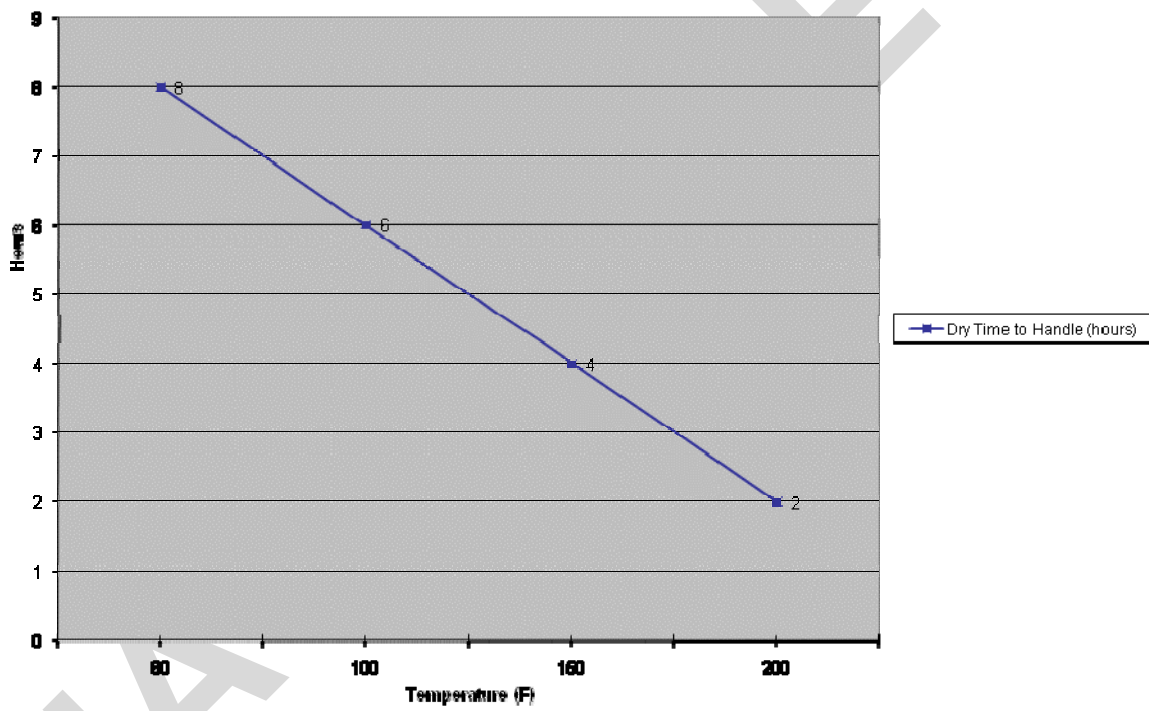
VI. APPLICATION REQUIREMENTS

ADD ADDITIONAL COMMENTS FROM PART VI HERE: Dry time charts follow.

Dry Time To Recoat



Dry Time to Handle



Dry Time to Full Service

