NAVSEA REVIEWED ASTM F-718

International Paint LLC

Interspeed 640, Controlled Depletion Polymer Antifouling Coating

PRODUCT DESIGNATIONS

BRA640 Red, BRA641 Blue, BRA642 Black and BRA643 Ocean Green

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://qpldocs.dla.mil/search/default.aspx.

Questions regarding modifications or updates of this ASTM F-718 shall be directed toward: NSWCPD at NavseaReviewedf718@us.navy.mil.

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

I. GENERIC TYPE AND DESCRIPTION: Controlled Depletion Polymer Antifouling Coating Date: 6/14/2024
Specification Number: MIL-PRF-24647
NOTE: For Type/Grade/Class/Application information see QPD-24647

II. MANUFACTURERS DATA:

(a) MANUFACTURER: International Paint LLC, 6001 Antoine Drive, Houston, TX 77091

(b) PRODUCT DESIGNATION: Interspeed 640: BRA640 Red, BRA641 Blue, BRA642 Black and BRA643 Ocean Green

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

(d) USES: Underwater hull antifouling.

(e) TECHNICAL SERVICE REPRESENTATIVE: 1-800-525-6824 (or contact your local International Paint representative)

III. PROPERTIES:

(a) PERCENT VOLUME SOLIDS (ASTM D2697): 62%± 2 %

(b) PERCENT WEIGHT SOLIDS (ASTM D2369): 82%± 2 %

(c) FLASH POINT (ASTM D3278):

Single component kit: 79 °F (26 °C)

(d) WEIGHT PER VOLUME (ASTM D1475):

BRA640 Red: 18.0 - 18.7 lb/gal (2156.88 – 2240.75 g/L)

BRA641 Blue: 17.7 - 18.3 lb/gal (2120.93 – 2192.82 g/L)

BRA642 Black: 18.0 - 18.7 lb/gal (2156.88 – 2240.75 g/L)

BRA643 Ocean Green: 17.0 - 17.6 lb/gal (2037.05 – 2108.95 g/L)

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

(f) SHELF LIFE: 24 Months

(g) VISCOSITY (ASTM D562):

Single component kit : 80 -90 KU @ 25 °C (77 °F)

(h) PACKAGING: 5 gallons in a 5 gallon container

(i) NUMBER OF COMPONENTS: 1

(j) GLOSS (ASTM D523): N/A GU

(k) STORAGE REQUIREMENTS: TEMPERATURE: 40 °F (4 °C) MIN. 95 °F (35 °C) MAX.

ADDITIONAL PAINT STORAGE REQUIREMENTS: N/A

(l) VOLATILE ORGANIC COMPOUNDS (VOCS- EPA TEST METHOD 24): 3.21 lb/gal (385 g/L)

(m) WEIGHT PER AREA OF DRY FILM AT 1 MIL THICKNESS: 0.015 lb/sq. ft. (73.236 g/m²)

(n) SPECIAL PROPERTIES:N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

(a) INITIAL CLEANLINESS: Apply over recommended anticorrosive primers while primer is fingerprint tacky, described as : When a fingertip is pressed lightly against the film and leaves only an impression or smudge but no coating transfers to the finger. (However, if using a NAVSEA approved epoxy tie coat as the final epoxy coat, apply antifoulant over the approved tie coat in accordance with the tables in the ASTM F718 published for that tie coat).

(b) TOUCH-UP CLEANLINESS: Apply over clean, dry surface primed with recommended anticorrosive or compatible antifouling coating.

(c) PROFILE (INCLUDE METHOD USED): N/A mils MIN. N/A mils MAX.

(d) SPECIAL INSTRUCTIONS: Mix well prior to use.

(e) PRIMER REQUIREMENTS: Apply over recommended anticorrosive primers or intact clean, dry compatible antifouling coating.

(f) MAXIMUM ALLOWABLE CONDUCTIVITY (In accordance with NAVSEA Standard Item 009-32):

In accordance with NAVSEA Standard Item 009-32.

(g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWED: N/A

SPECIAL SAFETY PRECAUTIONS:
PLEASE REFER TO SAFETY DATA SHEET

V. MIXING PROCEDURES

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

(b) INDUCTION TIME: N/A Minutes

(c) RECOMMENDED CLEANING SOLVENT (NO THINNING ALLOWED): GTA007

(d) POT LIFE:N/A

N/A Hours @ 77 °F (25 °C)

Graphs included on page: N/A

(e) SPECIAL INSTRUCTIONS: N/A

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS:

SUBSTRATE TEMPERATURE: 20°F (-7°C) MIN. 120°F (49°C) MAX.
AMBIENT TEMPERATURE: 30°F (-1°C) MIN. 100°F (38°C) MAX.
DIFFERENCE ABOVE THE DEW POINT: 5 °F (3 °C)
MAXIMUM PERCENT RELATIVE HUMIDITY: 85 %

(b) FILM THICKNESS (SSPC PA2-73T): PER COAT:
6.5 mils WET MIN. 9.0 mils WET MAX.
4.0 mils DRY MIN. 6.0 mils DRY MAX.
TOTAL SYSTEM:
(Refer to system DFT.) mils DRY MIN. (refer to system DFT.) mils DRY MAX.

(c) DRY TIMES (ASTM D1640):

Minimum Overcoat Window:

24 Hours @ 41 °F (5°C)
6 Hours @ 77 °F (25°C)
4 Hours @ 95 °F (35°C)

Maximum Overcoat Window:

There is no maximum Hours @ 41 °F (5°C)
There is no maximum Hours @ 77 °F (25°C)
There is no maximum Hours @ 95 °F (35°C)

Dry to Handle:

N/A Hours @ 41 °F (5°C)
N/A Hours @ 77 °F (25°C)
N/A Hours @ 95 °F (35°C)

Dry to Service:

48 Hours @ 41 °F (5°C)
24 Hours @ 77 °F (25°C)
20 Hours @ 95 °F (35°C)

Graphs included on page 4-5 or additional information included on page 5

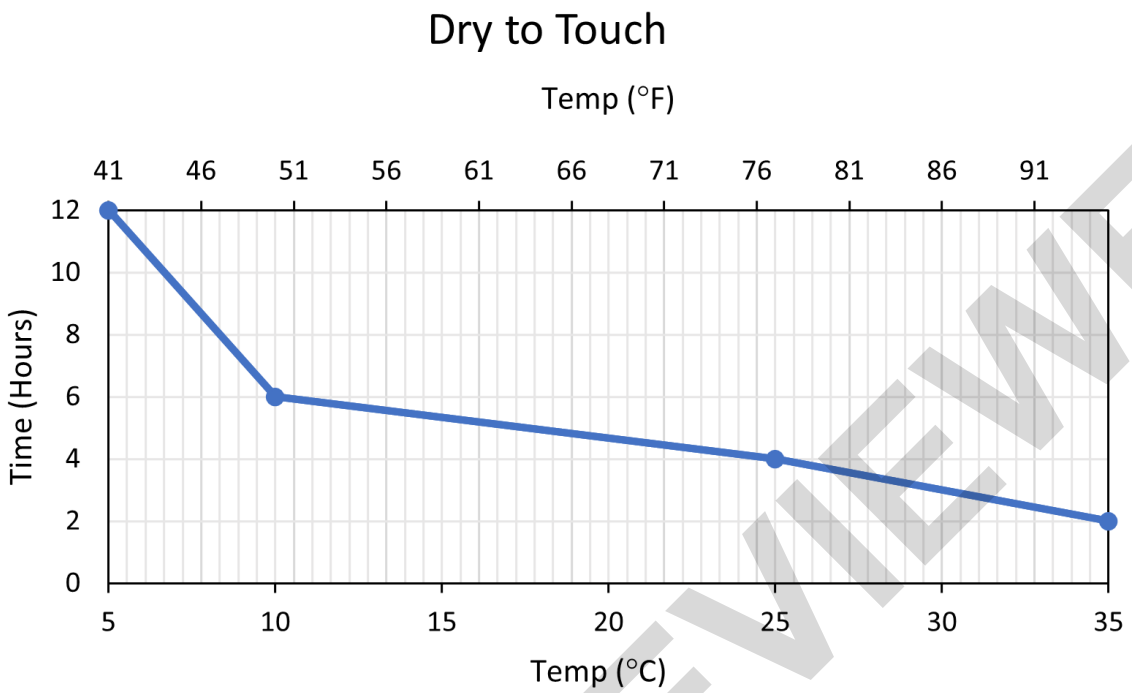
(d) EQUIPMENT REQUIREMENTS: Airless spray recommended. Conventional spray, brush, or roller acceptable for touch up of small areas only.

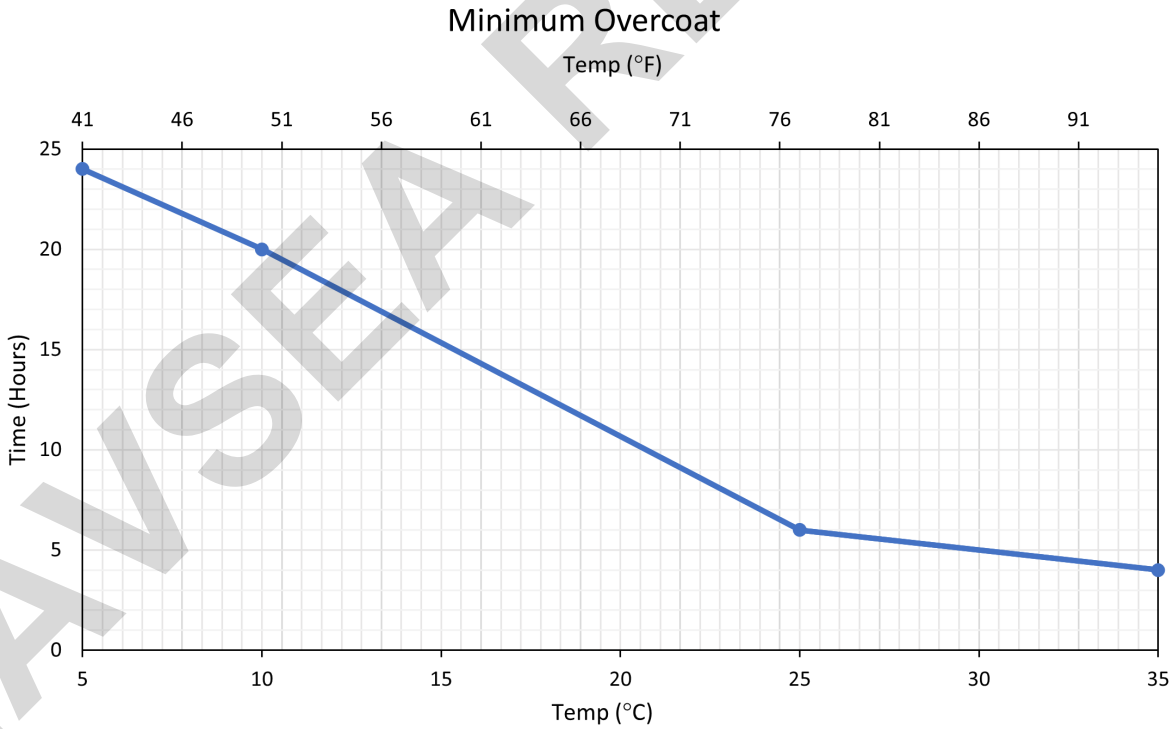
(e) SPECIAL INSTRUCTIONS: Material is supplied at spray viscosity and requires no thinning. Each Interspeed 640 coat in the system should be 4 to 6 mils DFT..There is no maximum overcoat window for Interspeed 640 applied over Interspeed 640, Follow Manufacturer's guidance.

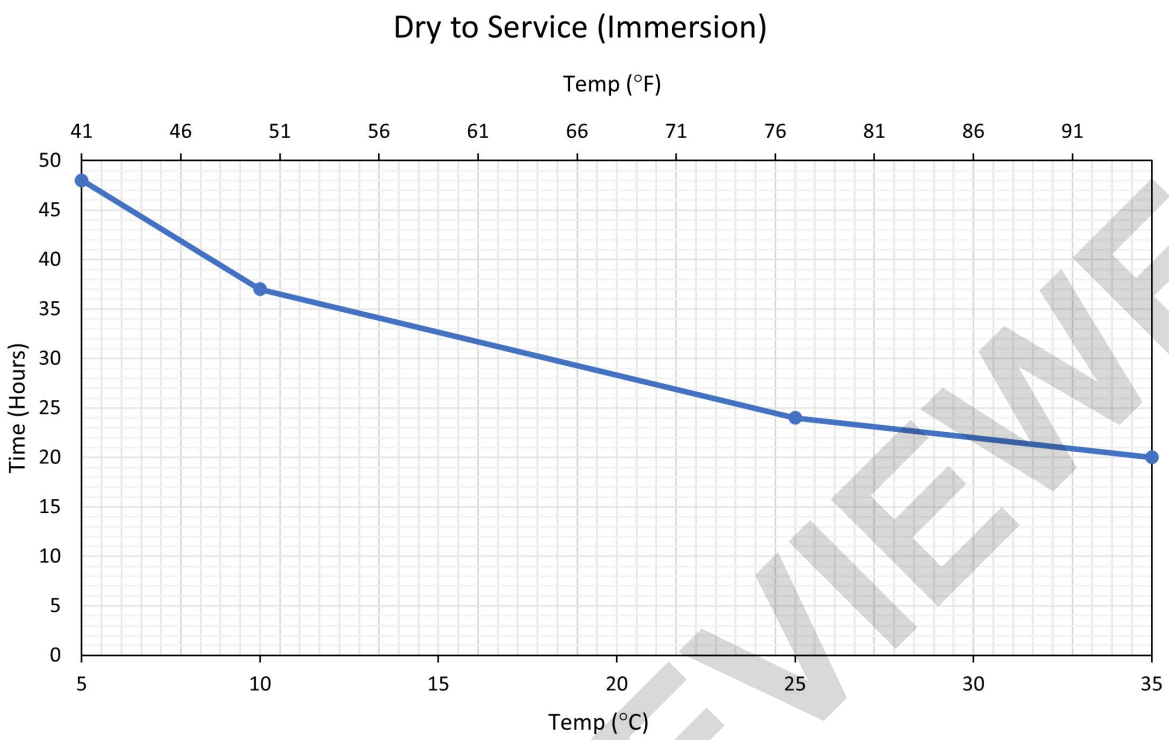
IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR CRITICAL APPLICATIONS: N/A

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: Controlled Depletion Polymer Antifouling Coating.

II. MANUFACTURERS DATA: N/A

III. PROPERTIES: N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS: N/A

V. MIXING PROCEDURES: N/A

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