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## NAVSEA REVIEWED ASTM F-718

International Paint, LLC  
Interthane 990HS

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MIL-PRF-24667

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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 <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](mailto:F718Admin@nstcenter.com)

**ASTM F 718**  
SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

CONTINUATION SHEET USED: ☒ YES ☐ NO  
Date: 10/2010 Rev.A3

I. GENERIC TYPE AND DESCRIPTION: Low VOC Polyurethane Finish Coat  
Specification Number, Type, Class and/or Grade (If Applicable): MIL-PRF-24667

II. MANUFACTURERS DATA:

- (a) MANUFACTURER: International Paint LLC
- (b) PRODUCT DESIGNATION: Interthane 990HS  
Part A: 990 series; Part B: 990B or 990L

(c) COLOR(S): White, Black, and range of colors

Interthane 990HS National Stock Numbers:

FS Color #	FS Color	NSN
31136	Red	8010-01-550-6860
3538	Yellow	8010-01-550-6861
36076	Dark Gray	8010-01-550-6863
36270	Haze Gray	8010-01-550-6864
37038	Black	8010-01-550-6866
14062	Green	8010-01-550-6867
37875	White	8010-01-550-6868

(d) USES: Cosmetic Finish Coat

(e) TECHNICAL SERVICE REPRESENTATIVE  
(Include Telephone Nos.): (800) 525-6824  
Technical Information Fax: (713) 684-1511

(f) NOT RECOMMENDED FOR: Immersion service

III. PROPERTIES:

- (a) % VOLUME SOLIDS (ASTM D 2697): 68% ± 3%
- (b) % WEIGHT SOLIDS (ASTM D1475): 78 ± 3%
- (c) FLASH POINT (ASTM TEST METHOD D 93 OR D 56 OR D 3278): 103°F (mixed)
- (d) WEIGHT PER VOLUME: (FTMS 141a4184.1): 12.1 ± 0.4 lbs (mixed)
- (e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION): NA
- (f) SHELF LIFE: Part A: 24 months  
Part B: 18 months
- (g) VISCOSITY (Stormer): COMPONENT A: NA  
COMPONENT B: NA  
MIXED: 70-90KU
- (h) PACKAGING: Part A: 4.5 gals in 5 gal can  
Part B: 0.5 gals in 1 gal can
- (i) NUMBER OF COMPONENTS: 2
- (j) GLOSS (ASTM D 523): Minimum 80
- (k) STORAGE REQUIREMENTS: TEMP. MIN. 40°F MAX. 100°F  
ADDITIONAL PAINT STORAGE REQUIREMENTS: 24 hrs prior to mixing, store between 70-80°F
- (l) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): 327 g/L
- (m) WEIGHT OF DRY FILM (WEIGHT/FT<sup>2</sup> AT 1 MIL THICKNESS): 0.0089 lbs

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

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

- (a) INITIAL – Apply over recommended anticorrosive primer or nonskid. Remove all surface contaminants by solvent cleaning to SSPC-SP 1.
- (b) TOUCH-UP – Apply over clean dry surface primed with recommended anticorrosive primer or nonskid.
- (c) PROFILE (INCLUDE METHOD USED) - MIN. NA MAX. NA
- (d) SPECIAL INSTRUCTIONS – Mix paint well prior to use.
- (e) PRIMER REQUIREMENTS (IF APPLICABLE): Apply over recommended anticorrosive primers or non skid. Consult International Paint.
- (f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESLE PATCH METHOD): Please refer to MILSPEC.
- (g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWABLE (LIST COMMERCIAL STANDARD): None

SPECIAL SAFETY PRECAUTIONS:  
Refer to Material Safety Data Sheet

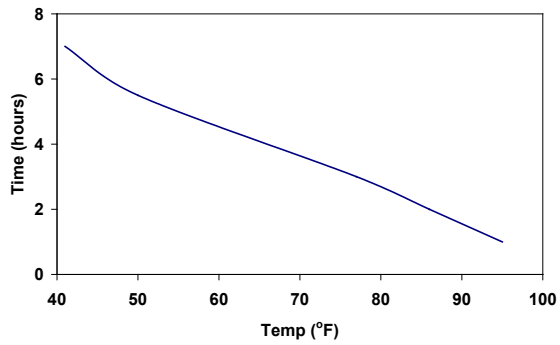
V. MIXING PROCEDURES:

- (a) MIXING RATIOS BY WEIGHT - NA  
BY VOLUME – 9:1 (A:B)
- (b) INDUCTION TIME – Not required
- (c) RECOMMENDED SOLVENT – THINNING – NO THINNING ALLOWED  
CONFINED AREAS - NO THINNING ALLOWED  
NON-CONFINED AREAS - NO THINNING ALLOWED  
CLEAN UP – GTA056
- (d) THINNING REQUIREMENTS (RATIO) – NO THINNING ALLOWED
- (e) POT LIFE -  
7 Hr(s) @ 41°F  
5.5 Hr(s) @ 50°F  
3 Hr(s) @ 77°F  
2 Hr(s) @ 86°F
- (f) SPECIAL INSTRUCTIONS – Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied.  
(1) Agitate Part A with a power agitator.  
(2) Combine entire contents of Part B with Part A and mix thoroughly with power agitator.

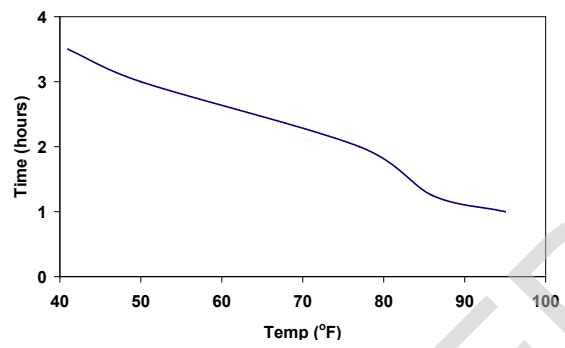
VI. APPLICATION:

- (a) ENVIRONMENTAL LIMITATIONS -  
SUBSTRATE TEMPERATURE: MIN. 40°F MAX. 120°F  
MINIMUM SUBSTRATE TEMPERATURE DIFFERENCE ABOVE THE DEW POINT - 5°F  
RELATIVE HUMIDITY: Refer to NAVSEA Standard Item 009-32  
AMBIENT TEMPERATURE: MIN. 40°F MAX. 100°F
- (b) FILM THICKNESS (SSPC-PA 2):  
PER COAT:  
WET MIN. 2.9 mils WET MAX. 4.4 mils  
DRY MIN. 2.0 mils DRY MAX. 3.0 mils  
TOTAL SYSTEM:  
DRY MIN. N/A DRY MAX. N/A Color Markings only.
- (c) DRY TIMES (ASTM D 1640) – PLEASE REFER TO GRAPHS ON THE FOLLOWING PAGE:
- (d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE, NOT SUITABLE REQUIREMENTS) – Conventional and airless spray, brush, and roller.  
Airless spray: Minimum 30:1 ratio pump; 0.013"-0.019" orifice tip; 3/8" ID high pressure material hose; 60 mesh tip filter.  
Conventional spray: DeVilbiss MBC-510 gun E tip and 704 air cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator.  
Brush: Use appropriate size China bristle brush.  
Roller: All purpose roller cover with 3/8" pile smooth to medium nap. Prewash roller cover to remove loose fibers prior to use.  
IF PLURAL COMPONENT EQUIPMENT IS REQUIRED, STATE SO – NA  
IF HEATED LINES ARE REQUIRED, STATE SO – NA
- (e) SPECIAL INSTRUCTIONS - None
- PROVIDE INFORMATION FOR REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: Refer to NAVSEA Standard Item 009-32.

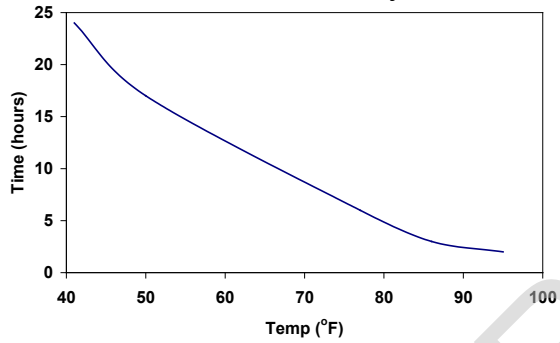
Interthane 990HS: Pot Life



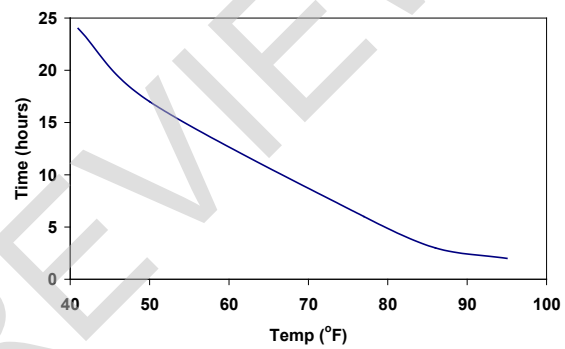
Interthane 990HS: Touch Dry



Interthane 990HS: Dry Hard



Interthane 990HS: Minimum Recoat



# ASTM F 718 CONTINUATION SHEET FOR

## SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

Date 10/2010 Rev. A3

I. GENERIC TYPE AND DESCRIPTION: Low VOC Polyurethane Finish Coat  
Specification Number (If Applicable): MIL-PRF-24667

### 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 Remove grease, oil, and dirt to SSPC-SP 1 or other approved method

### V. MIXING PROCEDURES

ADD ADDITIONAL COMMENTS FROM PART V HERE Before application, thoroughly mix to fully incorporate all coating components.

### VI. APPLICATION REQUIREMENTS

Interthane 990HS is a recoatable polyurethane. There is no maximum time limit to overcoat with self, providing the surface is clean.

ADD ADDITIONAL COMMENTS FROM PART VI HERE Dry times are normally a function of humidity, ventilation, and temperature. Information given is to be used as a guideline only.

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