

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

|                                                                                                          |                                       |                 |
|----------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|
| <b>I. GENERIC TYPE AND DESCRIPTION:</b>                                                                  | <b>BIO-DEK™ Water Clear Sealer LF</b> | Date: 1/02/2026 |
| Specification Number: MIL-PRF-32584                                                                      |                                       |                 |
| NOTE: For Type/Grade/Class/Application information see QPD- Type IV&V, Class 1&2, Grade A, Composition E |                                       |                 |
| <b>II. MANUFACTURERS DATA:</b>                                                                           |                                       |                 |
| (a) MANUFACTURER: BIO-DEK LLC, 2811 Andrew Ave., Pascagoula, MS 39567                                    |                                       |                 |
| (b) PRODUCT DESIGNATION: <b>BIO-DEK™ Water Clear Sealer LF</b>                                           |                                       |                 |
| (c) COLOR(S): Colorless                                                                                  |                                       |                 |
| (d) USES: When a protective finished clear coat is necessary                                             |                                       |                 |
| (e) TECHNICAL SERVICE REPRESENTATIVE: Murray DuBourdieu 714 975-0898                                     |                                       |                 |
| <b>III. PROPERTIES:</b>                                                                                  |                                       |                 |
| (a) PERCENT VOLUME SOLIDS (ASTM D2697): 100 %                                                            |                                       |                 |
| (b) PERCENT WEIGHT SOLIDS (ASTM D2369): 100 %                                                            |                                       |                 |
| (c) FLASH POINT ( <a href="#">Click here to enter text</a> ):                                            |                                       |                 |
| Part A (Resin): >302 °F (>150 °C)                                                                        |                                       |                 |
| Part B (Hardener): >302 °F (150 °C)                                                                      |                                       |                 |
| (d) WEIGHT PER VOLUME (ASTM D1475):                                                                      |                                       |                 |
| Part A (Resin) 9.1 lb/gal (1090 g/L)                                                                     |                                       |                 |
| Part B (Hardener) 8.3 lb/gal (994 g/L)                                                                   |                                       |                 |
| (e) PERCENT EDGE RETENTION, IF REQUIRED BY APPLICABLE SPECIFICATION (N/A): <a href="#">N/A</a>           |                                       |                 |
| (f) SHELF LIFE: 24 Months                                                                                |                                       |                 |
| (g) VISCOSITY ( <a href="#">Click here to enter text</a> ):                                              |                                       |                 |
| Part A (Resin) : 150 cp @ 70 °C ( 21 °F)                                                                 |                                       |                 |
| Part B (Hardener) : 250 cp @ 70 °C ( 21 °F)                                                              |                                       |                 |
| (h) PACKAGING: resin in a gallon can, hardener in a quart can, 2 full kits provided in a box             |                                       |                 |
| (i) NUMBER OF COMPONENTS: 2                                                                              |                                       |                 |
| (j) GLOSS (ASTM D523): 60-80 @ 60degrees GU                                                              |                                       |                 |
| (k) STORAGE REQUIREMENTS: TEMPERATURE: 50 °F ( 10 °C) MIN.    90 °F ( 32 °C) MAX.                        |                                       |                 |
| ADDITIONAL PAINT STORAGE REQUIREMENTS: do not open prior to use                                          |                                       |                 |
| (l) VOLATILE ORGANIC COMPOUNDS (VOCS- EPA TEST METHOD 24): <.04 lb/gal ( <5 g/L)                         |                                       |                 |
| (m) WEIGHT PER AREA OF DRY FILM AT 1 MIL THICKNESS: .0056 lb/sq. ft. ( 27.35 g/m²)                       |                                       |                 |
| (n) SPECIAL PROPERTIES:none                                                                              |                                       |                 |

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### IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

- (a) INITIAL CLEANLINESS: clean, dry and free of loose particulate.
- (b) TOUCH-UP CLEANLINESS: same as initial
- (c) PROFILE (1): 1 mil min. 3 mils. MAX
- (d) SPECIAL INSTRUCTIONS: temperature will effect the working time and dry to full cure
- (e) PRIMER REQUIREMENTS: not required, but can be used over tightly adhering substrate with min. of 1 mil profile
- (f) MAXIMUM ALLOWABLE CONDUCTIVITY ([Click here to enter text](#)):  
  
Refer to NAVSEA Standard item 009-32
- (g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWED: Surface shall be cleaned to a matte finish with at least 95% of the surface area free of all previously existing visible residues and the remaining 5% containing only randomly dispersed stains of rust, coatings, and foreign matter

SPECIAL SAFETY PRECAUTIONS:  
refer to MSDS

### V. MIXING PROCEDURES

- (a) MIXING RATIOS BY WEIGHT: 2.15:1 resin:hardner  
BY VOLUME: 2:1 resin:hardner
- (b) INDUCTION TIME: N/A Minutes
- (c) RECOMMENDED CLEANING SOLVENT (NO THINNING NECESSARY): alcohol, acetone, xylene
- (d) POT LIFE: .67 hours @ 70 °F ( 21 °C)  
  
Graphs included on page: 4
- (e) SPECIAL INSTRUCTIONS:

### VI. APPLICATION:

- (a) ENVIRONMENTAL LIMITATIONS:  
SUBSTRATE TEMPERATURE: 50°F (10°C) MIN. 90°F (32°C) MAX.  
AMBIENT TEMPERATURE: 50°F (10°C) MIN. 90°F (32°C) MAX.  
DIFFERENCE ABOVE THE DEW POINT: 5 °F ( 3 °C)  
MAXIMUM PERCENT RELATIVE HUMIDITY: 90 %
- (b) FILM THICKNESS (SSPC PA2-73T): PER COAT: 4 mils WET MIN. 100 mils WET MAX.  
TOTAL SYSTEM: 4 mils DRY MIN. 100 mils DRY MAX.

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(c) DRY TIMES (ASTM D1640):

Minimum Overcoat Window:

4 Hours @ 90 °F (32°C)

6 Hours @ 80 °F (27°C)

8 Hours @ 70 °F (21°C)

Maximum Overcoat Window:

24 Hours @ 90 °F (32°C)

36 Hours @ 80 °F (27°C)

48 Hours @ 70 °F (21°C)

Dry to Handle:

4 Hours @ 90 °F (32°C)

6 Hours @ 80 °F (27°C)

8 Hours @ 70 °F (21°C)

Dry to Service:

2 days @ 90 °F (32°C)

3 days @ 80 °F (27°C)

4 days @ 70 °F (21°C)

Graphs included on page [Click here to enter text](#) or additional information included on page [Click here to enter text](#)

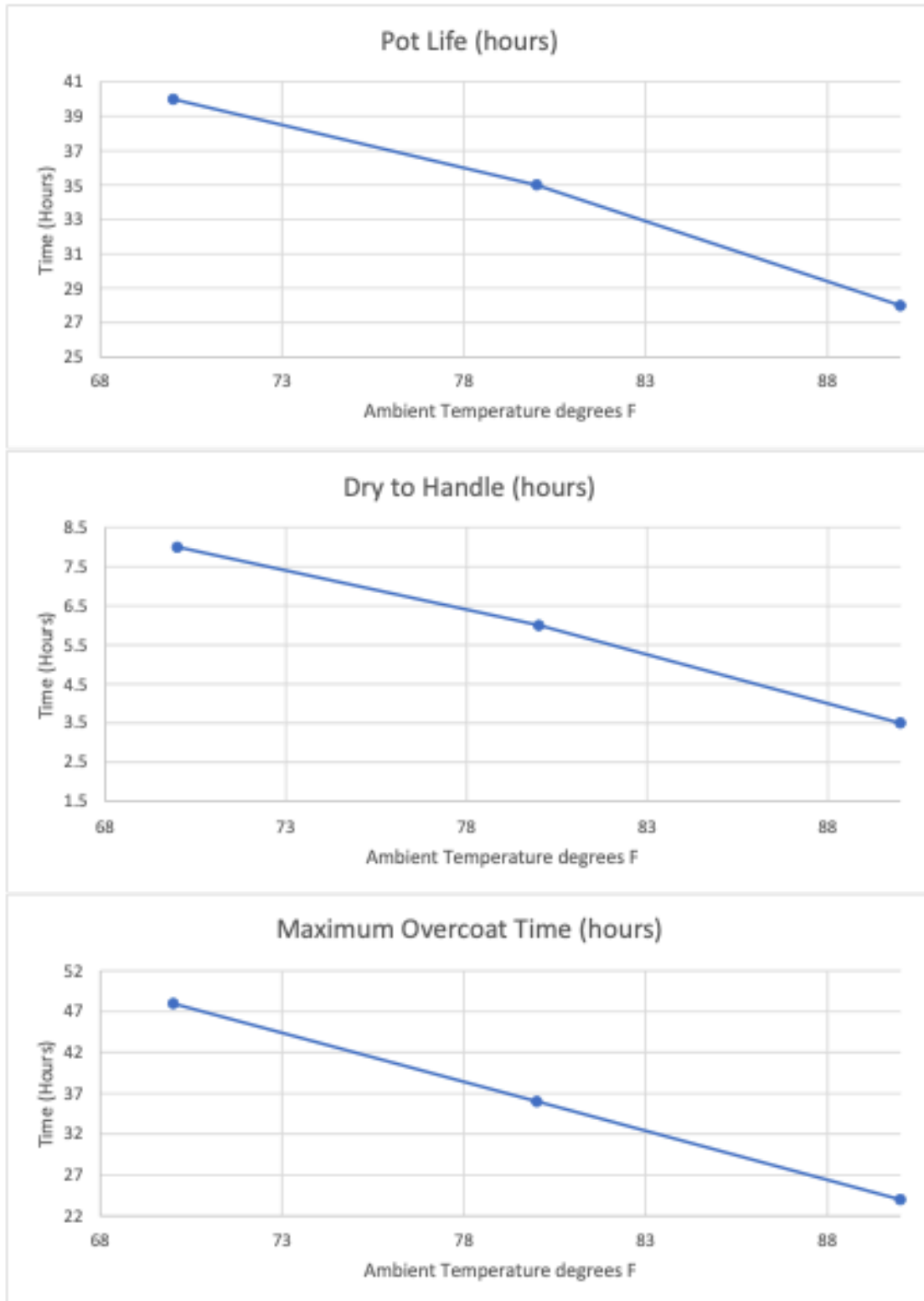
- (d) EQUIPMENT REQUIREMENTS: jiffy or paddle type blade for mixing and low speed drill, 1/4" or 3/8" nap roller, brush or squeegee for application

- (e) SPECIAL INSTRUCTIONS: [Click here to enter text](#)

IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR CRITICAL APPLICATIONS: If critical window has been exceeded, surface should be sanded to a 1-3 mil profile before applying next step

IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR NON-CRITICAL APPLICATIONS: If critical window has been exceeded, surface should be sanded to a 1-3 mil profile before applying next step

GRAPHS FOR POT LIFE AND CURE TIMES:



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#### ADDITIONAL DATA/INSTRUCTIONS:

I. GENERIC TYPE AND DESCRIPTION: 100% solids, low odor clear epoxy material designed to provide a clean, durable protective flooring surface for interior spaces.

II. MANUFACTURERS DATA: [Click here to enter text](#)

III. PROPERTIES: [Click here to enter text](#)

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS: 1-3 mil. surface profile. Surface must be clean, dry and free from flaking particulate. Profile can be forgiven if applied on top of epoxy material within recoat window requirements

V. MIXING PROCEDURES: mix part A resin with part B hardener on low speed for 1-2 minutes (until homogeneous). Be careful not to generate excessive bubbles. Use of a clean mixing blade helps minimize bubbles.

VI. APPLICATION: apply by brush, roller, or squeegee