

ASTM F 718

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

<p>I. GENERIC TYPE AND DESCRIPTION: Tenacious One Step Epoxy Flooring by BIO-DEK™</p> <p>Specification Number: MIL-PRF-32584</p> <p>NOTE: For Type/Grade/Class/Application information see QPD-Type V, Class 1&2, Grade A, Composition E</p>	<p>Date: 08/24/2020</p>
<p>II. MANUFACTURERS DATA:</p> <p>(a) MANUFACTURER: BIO-DEK™ LLC, 2827 Andrew Ave., Pascagoula, MS 39567</p> <p>(b) PRODUCT DESIGNATION: Tenacious One Step Epoxy Flooring by BIO-DEK™</p> <p>(c) COLOR(S): Various colors of specially sized rock & quartz in a clear matrix</p> <p>(d) USES: decorative, seamless flooring material. Designed to be top coated with BIO-DEK grout sealer and/or BIO-DEK Water Clear Sealer.</p> <p>(e) TECHNICAL SERVICE REPRESENTATIVE: Murray DuBourdieu 714 975-0898</p>	
<p>III. PROPERTIES:</p> <p>(a) PERCENT VOLUME SOLIDS (ASTM D2697): 100 %</p> <p>(b) PERCENT WEIGHT SOLIDS (ASTM D2369): 100 %</p> <p>(c) FLASH POINT (Click here to enter text):</p> <div style="margin-left: 40px;"> <p>Part A (Resin): >302 °F (>150 °C)</p> <p>Part B (Hardener): >302 °F (150 °C)</p> <p>Part C (aggregate): >302 °F (150 °C)</p> </div> <p>(d) WEIGHT PER VOLUME (ASTM D1475):</p> <div style="margin-left: 40px;"> <p>Part A (Resin) 9.32 lb/gal (1116 g/L)</p> <p>Part B (Hardener) 8.4 lb/gal (1006 g/L)</p> <p>Part C (Aggregate) 10.5 lb/gal (1258 g/L)</p> </div> <p>(e) PERCENT EDGE RETENTION, IF REQUIRED BY APPLICABLE SPECIFICATION (N/A): Click here to enter text %</p> <p>(f) SHELF LIFE: 24 Months</p> <p>(g) VISCOSITY (Click here to enter text):</p> <div style="margin-left: 40px;"> <p>Part A (Resin): 2000 cp @ 70 °C (21 °F)</p> <p>Part B (Hardener): 2000 cp @ 70 °C (21 °F)</p> <p>Part C (Aggregate): N/A - solid</p> </div> <p>(h) PACKAGING: resin in gallon can, hardener in quart can, Both provided in a 5-gallon metal pail with the aggregate</p> <p>(i) NUMBER OF COMPONENTS: 3</p> <p>(j) GLOSS (ASTM D523): 60-80 @ 60degrees GU</p> <p>(k) STORAGE REQUIREMENTS: TEMPERATURE: 50 °F (10 °C) MIN. 90 °F (32 °C) MAX.</p> <p style="margin-left: 40px;">ADDITIONAL PAINT STORAGE REQUIREMENTS: do not open prior to use</p>	

- (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: .0063 lb/sq. ft. (30.76 g/m²)
- (n) SPECIAL PROPERTIES: [Click here to enter text](#)

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 mils MIN. 5 mils MAX.
- (d) SPECIAL INSTRUCTIONS: temperature will effect the working time and dry to full cure. Material is degined to be top coated for best
- (e) PRIMER REQUIREMENTS: not required, but can be used over tightly adhearing primer with 1-3 mil profile. Works best when applied over BIO-DEK bond coat
- (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. This product is designed for application over BIO-DEK bond coat.**

SPECIAL SAFETY PRECAUTIONS:
refer to MSDS

V. MIXING PROCEDURES

- (a) MIXING RATIOS BY WEIGHT: 4.4:1:26 resin:hardner:aggregate
BY VOLUME: 3.9:1:26 resin:hardner:aggregate
- (b) INDUCTION TIME: N/A Minutes
- (c) RECOMMENDED CLEANING SOLVENT (NO THINNING ALLOWED): alcohol, acetone, xylene
- (d) POT LIFE: [Click here to enter text](#)

.8 Hours @ 70 °F (21 °C)

Graphs included on page: 4
- (e) SPECIAL INSTRUCTIONS: [Click here to enter text](#)

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:

80 mils WET MIN. 1000 mils WET MAX.

80 mils DRY MIN. 1000 mils DRY MAX.

TOTAL SYSTEM:

80 mils DRY MIN. 1000 mils DRY MAX.

(c) DRY TIMES (ASTM D1640):

Minimum Overcoat Window:

2 Hours @ 85 °F (29°C)

4 Hours @ 75 °F (24°C)

7 Hours @ 65 °F (18°C)

Maximum Overcoat Window:

24 Hours @ 85 °F (29°C)

36 Hours @ 75 °F (24°C)

48 Hours @ 65 °F (18°C)

Dry to Handle:

2 Hours @ 85 °F (29°C)

4 Hours @ 75 °F (24°C)

7 Hours @ 65 °F (18°C)

Dry to Service:

n/a [Click to select time Interval](#) @ 85 °F (29°C)n/a [Click to select time Interval](#) @ 70 °F (24°C)n/a [Click to select time Interval](#) @ 60 °F (18°C)

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

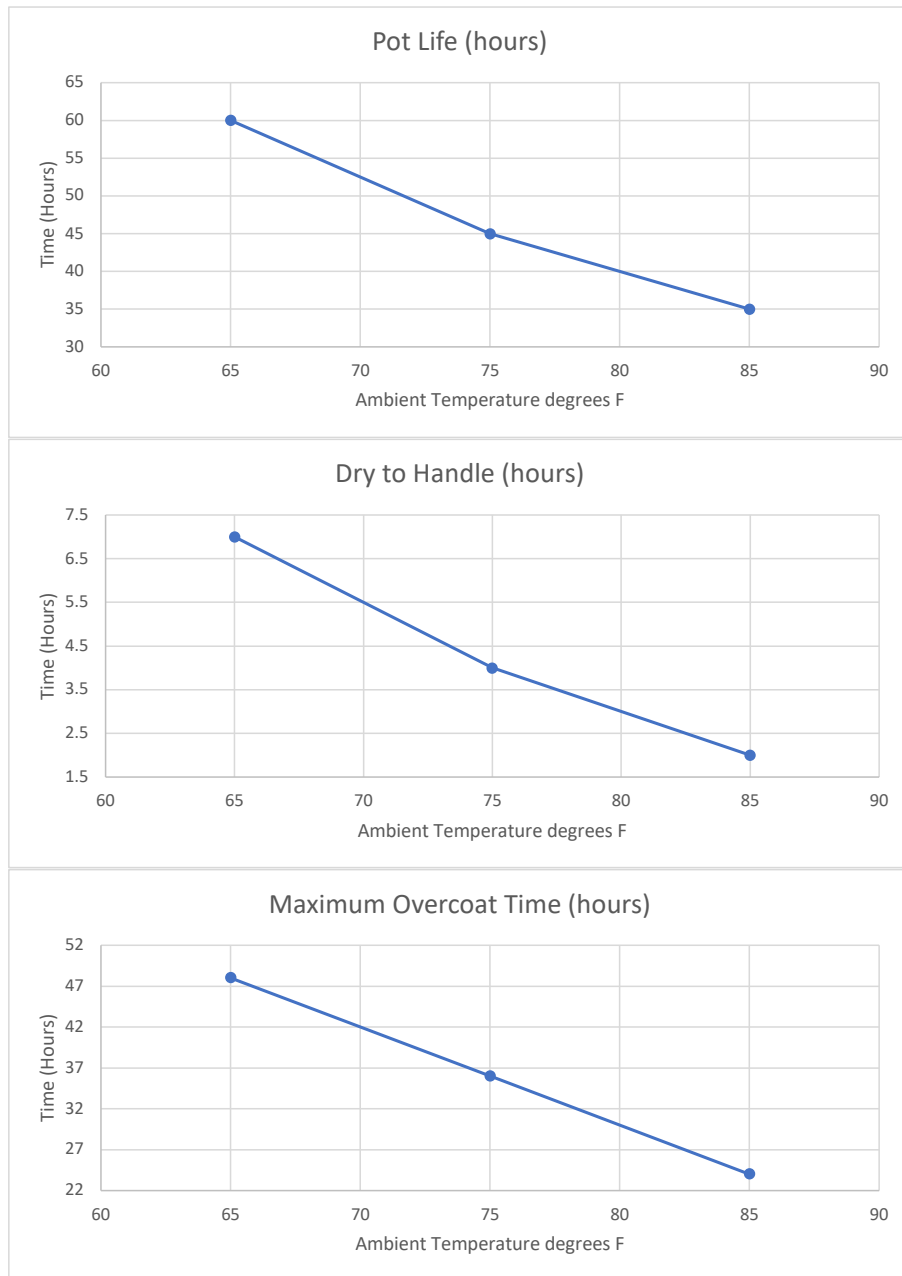
(d) EQUIPMENT REQUIREMENTS: small jiffy blade for mixing and low speed drill, ¼" nap roller or brush for application

(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 minimum 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 1 a minimum 1-3 mil profile before applying next step

GRAPHS FOR POT LIFE AND CURE TIMES:



ADDITIONAL DATA/INSTRUCTIONS:

I. GENERIC TYPE AND DESCRIPTION: 100% solids, low odor epoxy material designed to assist underlayment adhesion and performance of Biodek underlayments

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

V. MIXING PROCEDURES: mix part A resin with Jiffy blade on low speed for 20-30 seconds then blend in part B and mix until homogeneous (1-2 minutes). After blending liquids blend in aggregate material (part C)

VI. APPLICATION: apply by trowel