SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

I. GENERIC TYPE AND DESCRIPTION: Bio-Dek Grip Coat Date: 04/03/2020

Specification Number: MIL-PRF-3135H

NOTE: For Type/Grade/Class/Application information see QPD-Type I,II, and III, class 2, grades A and B

II. MANUFACTURERS DATA:

(a) MANUFACTURER: BIO-DEK LLC, 2827 Andrew Ave., Pascagoula, MS 39567

(b) PRODUCT DESIGNATION: Bio-Dek Grip Coat

(c) COLOR(S): transluscent red

(d) USES: bond coat for Bio-Dek “BUTTERR: Ultra Lightweight Underlayment

(e) TECHNICAL SERVICE REPRESENTATIVE: Robert Holroyd 252-207-8988

III. PROPERTIES:

(a) PERCENT VOLUME SOLIDS (ASTM D2697): 100 %

(b) PERCENT WEIGHT SOLIDS (ASTM D2369): 100 %

(c) FLASH POINT (Click here to enter text):

Part A (Resin): >302 °F (>150 °C)

Part B (Hardener): >302 °F (150 °C)

(d) WEIGHT PER VOLUME (ASTM D1475):

Part A (Resin) 8.4 lb/gal (1006 g/L)

Part B (Hardener) 9.17 lb/gal (1098 g/L)

(e) PERCENT EDGE RETENTION, IF REQUIRED BY APPLICABLE SPECIFICATION (N/A): Click here to enter text %

(f) SHELF LIFE: 24 Months

(g) VISCOSITY (Click here to enter text):

Part A (Resin) : 2000 cp @ 70 °C (21 °F)

Part B (Hardener) : 2500 cp @ 70 °C (21 °F)

(h) PACKAGING: resin in gallon can, hardener in 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: .00546 lb/sq. ft. (26.67 g/m^2)

(n) SPECIAL PROPERTIES:Click here to enter text

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

(a) INITIAL CLEANLINESS: clean, dry and free of lose particulate.

(b) TOUCH-UP CLEANLINESS: same as initial

(c) PROFILE (1): 1 mils 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 adhearing primer with 1-3 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: 1.5:1 resin:hardner
BY VOLUME: 1.6:1 resin:hardner

(b) INDUCTION TIME: N/A Minutes

(c) RECOMMENDED CLEANING SOLVENT (NO THINNING ALLOWED): alcohol, acetone, xylene

(d) POT LIFE:90

1.3 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:
4 mils WET MIN. 50 mils WET MAX.
4 mils DRY MIN. 50 mils DRY MAX.
TOTAL SYSTEM:

4 mils DRY MIN. N/A mils DRY MAX.

(c) DRY TIMES (ASTM D1640):

Minimum Overcoat Window:

n/a Click to select time Interval @ 80 °F (27°C)
n/a Click to select time Interval @ 70 °F (21°C)
n/a Click to select time Interval @ 60 °F (15.5°C)

Maximum Overcoat Window:

24 Hours @ 80 °F (27°C)
36 Hours @ 70 °F (21°C)
48 Hours @ 60 °F (15.5°C)

Dry to Handle:

10 Hours @ 80 °F (27°C)
18 Hours @ 70 °F (21°C)
24 Hours @ 60 °F (15.5°C)

Dry to Service:

n/a Click to select time Interval @ 80 °F (27°C)
n/a Click to select time Interval @ 70 °F (21°C)
n/a Click to select time Interval @ 60 °F (15.5°C)

Graphs included on page Click here to enter text or additional information included on page Click here to enter text

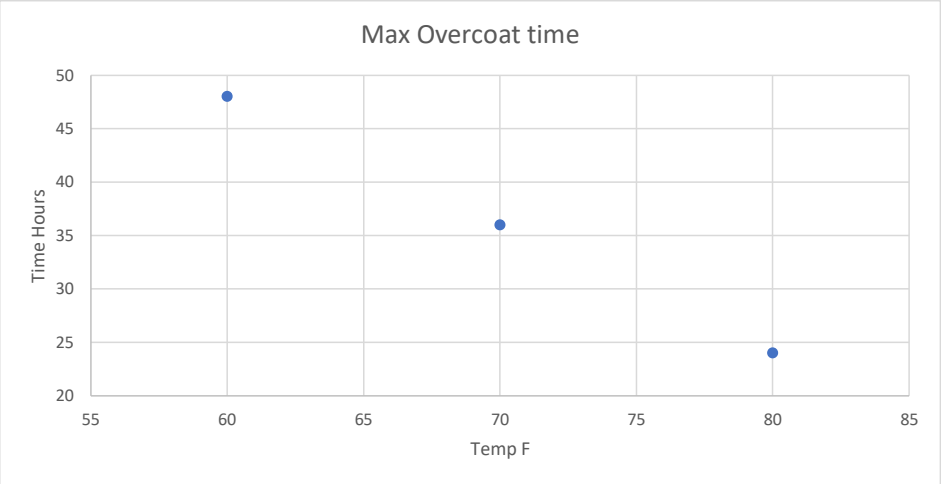
(d) EQUIPMENT REQUIREMENTS: small jiffy blade for mixing and low speed drill, ¼" nap roller or brush for application

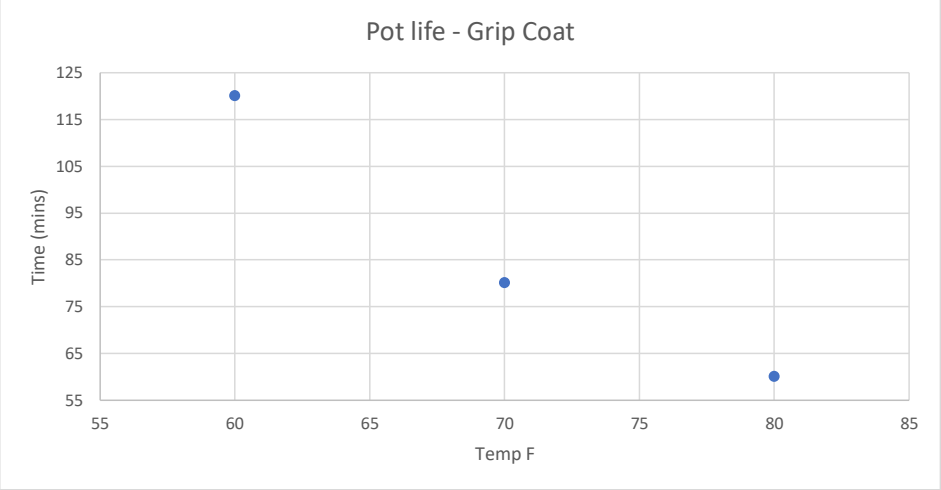
(e) SPECIAL INSTRUCTIONS: Click here to enter text

IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR CRITICAL APPLICATIONS: If critical window has been exceeded, surface should be sanded to 1 matte 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 matte 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, bust 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)

VI. APPLICATION: apply by brush or roller – min. of 4 mils is recommended for best results