

SHIPBUILDERS AND MARINE - ASTM - F718

PAINTS AND COATINGS

PRODUCT / PROCEDURE DATA SHEET NO. FD-300

Last Updated:	06/27/02
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I. GENERIC TYPE AND DESCRIPTION: Epoxy - Polyamide Non-Skid Deck Coating
Specification Number (If Applicable): MIL-C-81346 Type II

II. MANUFACTURERS DATA:

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| (a) MANUFACTURER:
ITW American Safety Technologies | (b) PRODUCT DESIGNATION:
FD-300 (formerly Epoxo Fast Dry) |
| (c) COLOR(S):
Shade No. 23 | (d) USES: Non-Skid Coating for Landing Mats
IAW MIL-C-81346 |
| (e) TECHNICAL SERVICE REPRESENTATIVE:
(Include Telephone No.):
(800) 631-7841 - Technical Dept. | (f) NOT RECOMMENDED FOR:
Carrier Decks |

III. PROPERTIES:

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| (a) % VOL. SOLIDS (ASTM D2697): 57 " 1% | (b) FLASH POINT (ASTM D93): 102°F (39°C)
OR (ASTM D56): 102°F (39°C) |
| (c) WT. PER GAL. (FTMS 141 _a 4184.1): 14.0 ± .2 lbs. | (d) SHELF LIFE: 1 Year |
| (e) VISCOSITY (FTMS 141 _a 4281): 8000-14000cps 75°F
(Thixotropic) | (f) PACKAGING: 62 gal. pails |
| (g) NUMBER OF COMPONENTS: 2 | (h) GLOSS (ASTM D523): N/A |
| (i) STORAGE REQUIREMENTS:
24 hrs. prior to mixing
(Colder temperatures will extend cure time) | TEMP. MIN. <u>40°F</u> MAX. <u>100°F</u> (Long Term)
TEMP. 60°F 80°F |

SPECIAL SAFETY PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING! IRRITANT. Do not get in eyes. Avoid contact with skin and clothing. Avoid inhalation vapor or mist. Use with adequate ventilation. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing and wash before use.
OTHER PRECAUTIONS: Avoid extreme heat - keep away from flame. Do not exceed 110°F in storage areas.

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

- (a) INITIAL - Remove grease, oil, and dirt (SSPC-SP1), followed by grit blasting.
- (b) TOUCH-UP - In hard to reach areas, use power tool chipping, sanding, descaling and grinding (SSPC-SP11).
- (c) PROFILE (INCLUDE METHOD USED) - MIN. SSPC-10/NACE 2 MAX. SSPC-5/NACE 1
White to near White blast cleaning. WATER JETTING – Cleaning – NACE/SSPC WJ-2/SC-2
- (d) SPECIAL INSTRUCTIONS -
Minimum 2 mil anchor profile. Recommend between 3-4.5 mils anchor profile.
- (e) PRIMER REQUIREMENTS (IF APPLICABLE): MS-3C/MS-7C should be applied minimum 2-3 mils, DFT, above anchor profile.

V. MIXING PROCEDURE:

- (a) MIXING RATIO BY WEIGHT - 32 : 1 (Base to hardener)
 BY VOLUME - 19 : 1 (Base to Hardener)
- (b) INDUCTION TIME - None
- (c) RECOMMENDED SOLVENT - THINNING - N/A
 CONFINED AREAS - N/A
 NON CONFINED AREAS - N/A
 CLEAN UP - 1) Propylene Glycol Ether
 2) Aromatic Naphtha
 3) N-Methyl Amyl Ketone (MAK)
- (d) THINNING REQUIREMENTS (RATIO) - N/A
- (e) POT LIFE - 4 Hrs @ 90 °F (32 °C)
8 Hrs @ 70 °F (21 °C)
12 Hrs @ 50 °F (10 °C)
- (f) SPECIAL INSTRUCTIONS - Pre-mix Part A, base component, to ensure all materials which may have settled during storage are lifted from the bottom. Mix Part A and Part B components with a mechanical/power mixer for a minimum of 3 to 5 minutes or until the mixed material assumes a uniform color and appearance.

VI. APPLICATION:

- (a) ENVIRONMENTAL LIMITATIONS:
 AMBIENT AIR TEMP. MIN. 40°F MAX. 90°F
 SUBSTRATE MIN. 50°F MAX. 140°F
 % RELATIVE HUMIDITY MIN. 0% MAX. 85%
- (b) FILM THICKNESS (SSPC PA2-73T) WET MIN. N/A WET MAX. N/A
 DRY MIN. 15 mils DRY MAX. 40 mils
- (c) DRY TIMES (ASTM D1650) - RECOAT
 MIN. 48 Hrs @ 90 °F (32 °C) @ 50 % R.H.
 MIN. 96 Hrs @ 70 °F (21 °C) @ 50 % R.H.
 MIN. 180 Hrs @ 50 °F (10 °C) @ 50 % R.H.
 MAX. Hrs @ °F (°C)
- TO HANDLE
 MIN. 12 Hrs @ 90 °F (32 °C) @ 50 % R.H.
 MIN. 24 Hrs @ 70 °F (21 °C) @ 50 % R.H.
 MIN. 48 Hrs @ 50 °F (10 °C) @ 50 % R.H.
- FOR IMMERSION
 MIN. 48 Hrs @ 90 °F (32 °C)
 MIN. 96 Hrs @ 70 °F (21 °C)
 MIN. 180 Hrs @ 50 °F (10 °C)
 MAX. Hrs @ °F (°C)
- (d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE AND NOT SUITABLE REQUIREMENTS).
 Special Mastic Spray Equipment (see Technical Data Sheet) or rolled.
- (e) SPECIAL INSTRUCTIONS - Drying by Force Cure System: Duration of dry in oven 12-25 minutes at 120°F-200°F.
 Cure 4-6 hours at ambient temp prior to handling.
 DO NOT APPLY material when substrate temp is under 50°F or over 140°F.

* CAUTION SHOULD BE TAKEN THAT SURFACE TEMPERATURE IS AT LEAST 5°F ABOVE DEW POINT.
 Coverage per gal. is 50 sq. ft. " 5 sq. ft.