

SHIPBUILDERS AND MARINE ASTM F-718

PAINTS AND COATINGS

MS-50

Last Updated:	06-10-05
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PRODUCT / PROCEDURE DATA SHEET NO.

<p>I. GENERIC TYPE AND DESCRIPTION: Epoxy - Polyamide Anti-Corrosive PAD-EYE Paint Specification Number (If Applicable): MIL-PRF-24667A/B</p>											
<p>II. MANUFACTURERS DATA:</p> <table border="0"> <tr> <td>(a) MANUFACTURER: ITW American Safety Technologies</td> <td>(b) PRODUCT DESIGNATION: MS-50</td> </tr> <tr> <td>(c) COLOR(S): 36076 Dark Gray</td> <td>(d) USES: Pad-Eye & Borders Coating</td> </tr> <tr> <td>(e) TECHNICAL SERVICE REPRESENTATIVE: (Include Telephone No.): (800) 631-7841 info@americansafetytech.com</td> <td>(f) NOT RECOMMENDED FOR: N/A</td> </tr> </table>		(a) MANUFACTURER: ITW American Safety Technologies	(b) PRODUCT DESIGNATION: MS-50	(c) COLOR(S): 36076 Dark Gray	(d) USES: Pad-Eye & Borders Coating	(e) TECHNICAL SERVICE REPRESENTATIVE: (Include Telephone No.): (800) 631-7841 info@americansafetytech.com	(f) NOT RECOMMENDED FOR: N/A				
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<p>III. PROPERTIES:</p> <table border="0"> <tr> <td>(a) % VOL. SOLIDS (ASTM D2697): 70 ± 1%</td> <td>(b) FLASH POINT (ASTM D93): 102F (39C) OR (ASTM D56): 102F (39C)</td> </tr> <tr> <td>(c) WT. PER GAL. (FTMS 141_a 4184.1): 11.6 ± .2 lbs.</td> <td>(d) SHELF LIFE: 1 Year per MIL-PRF-24667A/B</td> </tr> <tr> <td>(e) VISCOSITY (FTMS 141_a 4281): 8000-12000cps 75F (Thixotropic)</td> <td>(f) PACKAGING: 1 gal. Kits</td> </tr> <tr> <td>(g) NUMBER OF COMPONENTS: 2</td> <td>(h) GLOSS (ASTM D523): N/A</td> </tr> <tr> <td>(i) STORAGE REQUIREMENTS: 24 hrs. prior to mixing (Colder temperatures will extend cure time)</td> <td>TEMP. MIN. <u>40F</u> MAX. <u>100F</u> (Long Term) TEMP. 50F 90F</td> </tr> </table>		(a) % VOL. SOLIDS (ASTM D2697): 70 ± 1%	(b) FLASH POINT (ASTM D93): 102F (39C) OR (ASTM D56): 102F (39C)	(c) WT. PER GAL. (FTMS 141 _a 4184.1): 11.6 ± .2 lbs.	(d) SHELF LIFE: 1 Year per MIL-PRF-24667A/B	(e) VISCOSITY (FTMS 141 _a 4281): 8000-12000cps 75F (Thixotropic)	(f) PACKAGING: 1 gal. Kits	(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>40F</u> MAX. <u>100F</u> (Long Term) TEMP. 50F 90F
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<p style="text-align: center;">SPECIAL SAFETY PRECAUTIONS:</p> <p>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING! IRRITANT. Read MSDS before use. 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.</p> <p>OTHER PRECAUTIONS: Avoid extreme heat - keep away from flames or other ignition source.</p>											
<p>IV. SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBER(S)):</p> <table border="0"> <tr> <td>(a) INITIAL - Remove grease, oil, and dirt (SSPC-SP1), followed by grit blasting.</td> </tr> <tr> <td>(b) TOUCH-UP - Ensure the surface is free of dirt, oil, grease and other contaminates</td> </tr> <tr> <td>(c) PROFILE (INCLUDE METHOD USED) - N/A _____</td> </tr> <tr> <td>(d) SPECIAL INSTRUCTIONS - For recoat time over curing non-skid or primer refer to the appropriate ASTM-F718.</td> </tr> <tr> <td>(e) PRIMER REQUIREMENTS (IF APPLICABLE): Use MS-7C/MS-7CZ for substrates not to receive non-skid coatings</td> </tr> </table>		(a) INITIAL - Remove grease, oil, and dirt (SSPC-SP1), followed by grit blasting.	(b) TOUCH-UP - Ensure the surface is free of dirt, oil, grease and other contaminates	(c) PROFILE (INCLUDE METHOD USED) - N/A _____	(d) SPECIAL INSTRUCTIONS - For recoat time over curing non-skid or primer refer to the appropriate ASTM-F718.	(e) PRIMER REQUIREMENTS (IF APPLICABLE): Use MS-7C/MS-7CZ for substrates not to receive non-skid coatings					
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V. MIXING PROCEDURE: **NOTE-Improperly mixed material will not cure properly.**

- (a) MIXING RATIO BY WEIGHT - 5.7 : 1 (Base to hardener)
 BY VOLUME - 4.1 : 1 (Base to Hardener)
- (b) INDUCTION TIME - None
- (c) RECOMMENDED SOLVENT - THINNING - Not Authorized
 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) - Not Applicable
- (e) POT LIFE - 4 Hrs @ 90 F (32C)
6 Hrs @ 70 F (21C)
12 Hrs @ 50 F (10C)
- (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 minimum of 3 to 5 minutes or until the mixed material assumes a uniform color and appearance.

VI. APPLICATION: **Cooler temperatures extend curing time, warmer temperatures shorten curing time.**

- (a) ENVIRONMENTAL LIMITATIONS: DO NOT APPLY when surface temperature is under 40°F or above 140°F
 TEMP. MIN. 40F MAX. 100F (Long Term)
 % RELATIVE HUMIDITY MIN. 0% MAX. 85%F
- (b) FILM THICKNESS (SSPC PA2-73T) WET MIN. 9 mils WET MAX. 14 mils
 DRY MIN. 6 mils DRY MAX. 10 mils
- (c) DRY TIMES (ASTM D1650) - RECOAT
 MIN. N/A Hrs @ 90F (32C) @ 50 % R.H.
 MIN. N/A Hrs @ 70F (21C) @ 50 % R.H.
 MIN. N/A Hrs @ 50F (10C) @ 50 % R.H.
 MAX. Hrs @ EF (EC)
- TO HANDLE
 MIN. 4 Hrs @ 90F (32C) @ 50 % R.H.
 MIN. 6 Hrs @ 70F (21C) @ 50 % R.H.
 MIN. 12 Hrs @ 50F (10C) @ 50 % R.H.
- FOR IMMERSION
 MIN. 8 Hrs @ 90F (32C)
 MIN. 12 Hrs @ 70F (21C)
 MIN. 24 Hrs @ 50F (10C)
 MAX. Hrs @ EF (C)
- (d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE AND NOT SUITABLE REQUIREMENTS). Spray, Suitable Roller or Brush, Adequate power or mechanical mixer.
- (e) SPECIAL INSTRUCTIONS - DO NOT APPLY material when deck temperature is UNDER 40°F or over 140°F. At time of application in accordance with MIL-PRF-24667A/B MATERIAL TEMPERATURE should be GREATER than 50°F and LESS than 90°F.

CAUTION SHOULD BE TAKEN THAT SURFACE TEMPERATURE IS AT LEAST 5 degrees F ABOVE DEW POINT.
 DO NOT APPLY MS-50 until primer has cured sufficiently for recoat.