

**Holcim Products and Solutions US LLC /
American Safety Technologies**

**MS-8CZ, Two component high solids, epoxy
polyamide based primer**

PRODUCT DESIGNATION

Part A: MS720R DK Gray, MS721R Buff, MS722R Haze Gray

Part B: MS720H

MIL-PRF-24667

If this product is to be applied as part of a coating system, all components of the system must be as listed on the QPL

This NAVSEA-REVIEWED ASTM F-718 data sheet is the only data sheet approved for use when utilizing this coating for U.S. Navy preservation projects. NAVSEA's review covers only the application process for the material. The review does not denote the material as a qualified product, nor does it constitute an approval for purchase/procurement of the material. For products on the Qualified Products List (QPL) for this MILSPEC, please refer to <https://qpldocs.dla.mil/search/default.aspx>.

Questions regarding modifications or updates of this ASTM F-718 shall be directed toward: NSWCPD at NavseaReviewedf718@us.navy.mil.

ASTM F 718

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

I. GENERIC TYPE AND DESCRIPTION: Two component high solids, epoxy polyamide based primer Specification Number: MIL-PRF-24667 NOTE: For Type/Grade/Class/Application information see QPD-24667		Date: 2/21/2025
II. MANUFACTURERS DATA:		
(a) MANUFACTURER: Holcim Products and Solutions US LLC / American Safety Technologies, 12055 Cutten Road, Houston, TX 77066		
(b) PRODUCT DESIGNATION: MS-8CZ Part A: MS720R DK Gray, MS721R Buff, MS722R Haze Gray; Part B: MS720H. Coatings sold in kit form designated with a "K" suffix which contain both Part A and Part B (ie MS720K Dk Gray Kit, MS721K Buff Kit and MS722K Haze Gray Kit).		
(c) COLOR(S): Dark Gray, Buff, Haze Gray		
(d) USES: Primer to be used with Holcim/American Safety Technologies Exterior and Interior Decking Systems		
(e) TECHNICAL SERVICE REPRESENTATIVE:): 800-878-7876, Fax: 972-554-3939, Email: holcimacs.orders1@holcim.com, web site: www.holcimast.com.		
III. PROPERTIES:		
(a) PERCENT VOLUME SOLIDS (ASTM D2697): 90.5 +/- 2 %		
(b) PERCENT WEIGHT SOLIDS (ASTM D2369): 94.5 +/- 2 %		
(c) FLASH POINT (ASTM D3278):		
Part A: >102 °F (39 °C)		
Part B: >105 °F (40 °C)		
(d) WEIGHT PER VOLUME (ASTM D1475):		
Part A: 14.0 lb/gal (1677 g/L)		
Part B: 8.1 lb/gal (970 g/L)		
Mixed: 12.4 lb/gal (1486 g/L)		
(e) PERCENT EDGE RETENTION, IF REQUIRED BY APPLICABLE SPECIFICATION (Click here to enter text): N/A %		
(f) SHELF LIFE: 12 Months		
(g) VISCOSITY (ASTM D2198):		
Part A : ~3000 cps @ 21 °C (70 °F)		
Part B : ~125 cps @ 21 °C (70 °F)		
Mixed : ~2000 cps @ 21 °C (70 °F)		
(h) PACKAGING: Part A: 3.75 gallons in 6 ½ gallon pail, Part B: 1.25 gallons in a 1.3-gallon (5 liter) bag		
(i) NUMBER OF COMPONENTS: 2		
(j) GLOSS (ASTM D523): N/A GU		
(k) STORAGE REQUIREMENTS: TEMPERATURE: 40 °F (4.4 °C) MIN. 100 °F (37.7 °C) MAX.		
ADDITIONAL PAINT STORAGE REQUIREMENTS: 24 HOURS PRIOR TO MIX: TEMP. MIN. 50°F (10°C) MAX. 90°F (32.2°C)		

- (l) VOLATILE ORGANIC COMPOUNDS (VOCS- EPA TEST METHOD 24): 0.69 lb/gal (83 g/L)
- (m) WEIGHT PER AREA OF DRY FILM AT 1 MIL THICKNESS: 0.0080 lb/sq. ft. (3.6 g/m²)
- (n) SPECIAL PROPERTIES: Anti-Corrosive, Zinc Complex Epoxy Primer (Contains 0% Free Zinc Metal).

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS:

- (a) INITIAL CLEANLINESS: Remove grease, oil and dirt per SSPC-SP1 or other approved method followed by abrasive blasting or UHP water jetting. MIN: SSPC-SP10/NACE 2. UHP Water Jetting – SSPC-SP WJ-2/NACE WJ-2
- (b) TOUCH-UP CLEANLINESS: For deck edges, hard to reach areas and for areas not to receive nonskid, use power tool cleaning to bare metal per SSPC SP-11. A minimum anchor tooth profile of 2 mils is required.
- (c) PROFILE (ASTM D4417 Method B or C): 3 mils MIN. 6 mils MAX.
- (d) SPECIAL INSTRUCTIONS: (ASTM D4417 Method B or C): MIN. 3 MILS MAX. 6 MILS Application of nonskid coating systems on substrates which exhibit anchor tooth profile depths greater than 7 mils deep is not recommended.
- (e) PRIMER REQUIREMENTS: N/A
- (f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESLE PATCH METHOD ISO 8502-9):
70µS/cm for non-submersible structures
- (g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWED: LIGHT (NACE WJ-2/SSPC-SP WJ-2)

SPECIAL SAFETY PRECAUTIONS:

CAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING! IRRITANT, Read MSDS before use. Do not get in eyes, avoid contact with skin and clothing, and avoid inhalation of 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 or other ignition source.

V. MIXING PROCEDURES

- (a) MIXING RATIOS BY WEIGHT: 4.82:1 (Part A to Part B)
BY VOLUME: 2.8:1 (Part A to Part B)
- (b) INDUCTION TIME: N/A Minutes
- (c) RECOMMENDED CLEANING SOLVENT (NO THINNING ALLOWED): S-31 Solvent, S-426 Solvent, Isopropyl Alcohol, Aromatic Naphtha, MAK
- (d) POT LIFE: [Click here to enter text](#)
1.5 Hours @ 50 °F (10 °C)
1 Hours @ 70 °F (21 °C)
0.5 Hours @ 90 °F (32.2 °C)
[Click to select time Interval](#)

Graphs included on page: 5

- (e) SPECIAL INSTRUCTIONS: Premix Part A (base component) to ensure all materials which may have settled during storage are lifted from the bottom. Using a clean mixing paddle and adequate mechanical mixer, mix Part A and Part B components together for a minimum of 3 minutes or until the mixed material assumes a uniform color and appearance. Warning- Improperly mixed material will not cure properly.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS:

SUBSTRATE TEMPERATURE: 50°F (10°C) MIN. 120°F (48.9°C) MAX.
 AMBIENT TEMPERATURE: 50°F (10°C) MIN. 100°F (37.7°C) MAX.
 DIFFERENCE ABOVE THE DEW POINT: 5 °F (2.8 °C)
 MAXIMUM PERCENT RELATIVE HUMIDITY: 85 %

(b) FILM THICKNESS (SSPC PA2-73T): PER COAT:

3 mils WET MIN. 10 mils WET MAX.
 3 mils DRY MIN. 9 mils DRY MAX.

TOTAL SYSTEM:

N/A mils DRY MIN. 14 mils DRY MAX.

(See Section VI (e) below for additional guidance on total film thickness.)

(c) DRY TIMES (ASTM D1640):

Minimum Overcoat Window:

24 Hours @ 50 °F (10°C)
 12 Hours @ 70 °F (21°C)
 6 Hours @ 90 °F (32.2°C)

Maximum Overcoat Window:

28 Days @ 50 °F (10°C)
 14 Days @ 70 °F (21°C)
 7 Days @ 90 °F (32.2°C)

Dry to Handle:

N/A [Click to select time Interval](#) @ [Click here to enter text °F](#) ([Click here to enter text°C](#))
 N/A [Click to select time Interval](#) @ [Click here to enter text °F](#) ([Click here to enter text°C](#))
 N/A [Click to select time Interval](#) @ [Click here to enter text °F](#) ([Click here to enter text°C](#))

Dry to Service:

14 Days @ 50 °F (10°C)
 7 Days @ 70 °F (21°C)
 5 Days @ 90 °F (32.2°C)

Graphs included on page N/A or additional information included on page 3-4

- (d) EQUIPMENT REQUIREMENTS: Spray, Roller, or Brush, ½ HP mechanical mixer and suitable mixing blade.

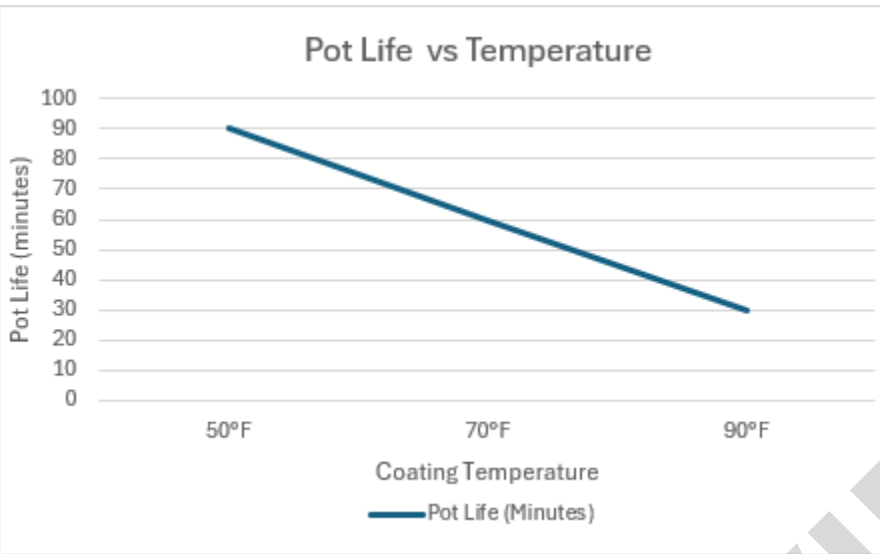
- (e) SPECIAL INSTRUCTIONS: Ensure minimum total dry film thickness is greater than the anchor tooth profile.

IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR CRITICAL APPLICATIONS: CRITICAL APPLICATIONS RECEIVING NONSKID: If nonskid has not been applied within 72-hour window over cured primer, you must abrade, solvent wipe per SSPC-SP1. Allow the solvent to fully dry before applying a mist coat of primer. Once the primer is sufficiently dried, apply nonskid coating. If more than 7 days have elapsed following observance of primer minimum cure schedule, remove primer to bare metal and re-apply new primer coat. CRITICAL APPLICATIONS NOT RECEIVING NONSKID: This includes zone tie-in areas where the primer is to be overcoated with itself (up to 12 inches), borders, aircraft securing fitting,

deck edge coaming, drains and fixtures. If less than 7 days has elapsed since the application of the primer coat, perform a complete cleaning by solvent wipe down of the primed area to be overcoated. After day 7 and up to day 30, if the next coat has not been applied, the entire surface shall be cleaned in accordance with SSPC-SP1. Ensure the surface has fully dried following solvent cleaning, and then lightly abrade with abrasive blast, power sanding, or hand sanding using 80-120 grit. Perform a solvent re-clean of the abraded surface and allow any visible traces of solvent to fully evaporate. After solvent cleaning (ensuring surfaces have completely dried and all solvent has evaporated) and after visual inspection confirms the absence of surface contaminants, proprietary primer or color topping may be applied.

IF OVERCOAT WINDOW HAS BEEN EXCEEDED FOR NON-CRITICAL APPLICATIONS: If less than 7 days has elapsed since the application of the primer coat, perform a complete cleaning by solvent wipe down of the primed area to be overcoated. After solvent cleaning (ensuring surfaces have completely dried and all solvent has evaporated) and after visual inspection confirms the absence of surface contaminants, a proprietary primer, nonskid, or color topping may be applied. After day 7 and up to day 30, if the next coat has not been applied, the entire surface shall be cleaned in accordance with SSPC-SP1. Ensure the surface has fully dried following solvent cleaning and then lightly abrade with abrasive blast, power sanding or by hand sanding using 80-120 grit. Perform a solvent re-clean of the abraded surface and allow any visible traces of solvent to fully evaporate. Apply a tack coat (2-3 mils/ 50-75 microns WFT) of proprietary primer. Minimum overcoat dry times for application of a "tack coat" applied to a primer coat shall be those indicated within the Dry Time table in section VI (c).

GRAPHS FOR POT LIFE AND CURE TIMES:



ADDITIONAL DATA/INSTRUCTIONS:

I. GENERIC TYPE AND DESCRIPTION: N/A

II. MANUFACTURERS DATA: N/A

III. PROPERTIES: N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS: N/A

V. MIXING PROCEDURES: N/A

VI. APPLICATION: N/A