



TECHNICAL DATA SHEET – MS-8CZ

Revised:09/2022

PRODUCT DESCRIPTION

MS-8CZ Metal Primer is heavy duty, anti-corrosive modified epoxy primer which forms a tough abrasion resistant film that protects the substrate from salt and chemical attack. Additionally, **MS-8CZ** is a HAPS free primer which contains specially formulated zinc complexes which provide “State of the Art” cathodic protection against corrosion of steel decks on Navy vessels. This unique ability allows **MS-8CZ** to meet the extreme demands of a system in marine environments. **MS-8CZ** provides excellent protection of surfaces against aggressive and corrosive environments.

RECOMMENDED USES

MS-8CZ Surface Primer is designed to be used in conjunction with American Safety Technologies high performance non-skid decking products and meets the low volatile organic compound requirements of California and NAVSEA air pollution guidelines.

SURFACE PREPARATION

METAL DECKS – GRIT BLASTING

1. **MS-8CZ** can be applied to any clean, dry surface. All rust, mill scale, paint, dirt, grease, oil, etc. must be completely removed. Recommended methods of cleaning steel surfaces are as follows:
 - a. Grit-blasting to a SA 2.5 (near white metal) or SSPC-SP10, is the preferred method of cleaning and results in the best surface for adhesion.
 - c. Where grit-blasting is not feasible, power tool cleaning utilizing power sanders fitted with #16 grit aluminum oxide sanding discs can produce a sufficiently clean surface provided cleaning is carefully and intensively done.

- d. Remove oil, dirt, wax, etc., by dissolving in a water-based cleaner/degreaser. An alternative method is to remove the grease or oil with a solvent. Solvents are flammable and must be handled with care. It is important that the solvent not be allowed to evaporate during the cleaning process and redeposit grease or oil on the deck. Ample solvent must be applied to the surface to completely dissolve the grease and oil and the solvent containing the dissolved grease and oil must be wiped up with clean rags before the solvent dries.

2. After cleaning, all loose particles must be removed by brushing, air hosing or similar method. Prior to product application remove any chalk, marking paints or other substances used to identify problem areas. Booties or other suitable shoe coverings should be worn when walking on primer.

HIGH AND ULTRA HIGH – PRESSURE WATER JETTING

All surfaces to be recoated shall be cleaned in accordance with NACE/SSPC WJ-/NV-2.

WJ-2: A WJ-2 surface shall be cleaned to a matte (dull, mottled) finish which, when viewed without magnification, is free of all visible oil, grease, dirt and rust except for randomly dispersed stains of rust, tightly adherent thin coatings, and other tightly adherent foreign matter. The staining or tightly adherent matter is limited to a maximum of 5% of the surface.

NV-2: An NV-2 surface shall have less than 7mg/cm² chloride contaminants, less than 10 mg/cm² of soluble ferrous ion levels, and less than 17 mg/cm² of sulfate contaminants as verified by field or laboratory analysis using reliable, reproducible test equipment.

MS-8CZ

ANTI CORROSIVE LOW V.O.C STEEL PRIMER
MIL-PRF-24667C/ 24613/ 3135

MIXING AND APPLICATION

- Application should only take place when surface and material temperatures are minimum 50°F (10°C) or above. Application when surface temperature is above 120°F (49°C) or below 50°F (10°C) is not recommended. Surface to be painted must be at least 5°F (3°C) above the dew point.
- MS-8CZ** should be applied to a minimum 2-3 mils (50-75 microns) dry film thickness above the measured surface profile.
- MS-8CZ** can be applied by spray, roller or brush. Spraying should be done perpendicular to the surface to insure complete coverage. Each pass of the spray gun should overlap the previous pass by 50%. Weld seams and edges should be stripe coated prior to complete prime coat. Equipment Requirements: ½ HP mechanical mixer and suitable mixing blade. For spray application use a Graco Premier 74:1 air operated piston pump (or equal), 531 or 535 spray tip, 50' – 100' ¾" fluid hose and a 1" pickup tube. For roller application use a 9 inch, ½ inch nap roller, 9 inch roller cage and sturdy extension handle. For brush application choose an appropriate brush for the job.
- MS-8CZ** is a two-part compound. Mechanically mix the base portion until homogenous. Pour the hardener into the container of base material and mechanically mix thoroughly until uniform (approximately three minutes). NO THINNERS MAY BE ADDED. Make sure that all sediment is mixed up from bottom of can.
- MS-8CZ** does not require the usual induction period and may be applied immediately after mixing.
- The primed surface should be protected from contamination. Block off area to prevent any foot or rolling traffic.
- If the non-skid application is delayed so that the surface becomes contaminated, clean the area again. Tack coat is not normally required provided the non-skid application is made within 180 hours at 50°F (10°C). After 180 hours, the primed surface must be mechanically abraded or brush blasted prior to application of a tack coat of **MS-8CZ** primer.
- Areas not designated to receive non-skid within 7 – 10 days of primer application such as borders and tie-downs shall be cleaned and solvent wiped prior to applying a topcoat like AST Color Topping. Areas exceeding 10 days shall be lightly abraded and cleaned with an approved solvent prior to applying a topcoat like AST Color Topping.
- Clean tools and spray equipment immediately after completing installation using an epoxy solvent compliant with state and federal V.O.C. regulation. Additional information refer to the manufactures ASTM F718

PRODUCT SPECIFICATIONS

SOLIDS BY WEIGHT	94.5 ± 2 %
V.O.C	0.69 ± 0.04 lbs. per gallon (83± 5 grams/liter)
MIX RATIO BY WEIGHT	4.82:1 (Base to Hardener)
MIX RATIO BY VOLUME	2.8:1 (Base to Hardener)
POT LIFE FOR SPRAY APPLICATION	1.4 Hrs. @ 70°F (21°C) @ 50% RH (constant)
GEL TIME PER MIL-PRF-24667	60 Min. @ 70°F (21°C) @ 50% RH (constant)
ESTIMATE COVERAGE	270 sq. ft./gal
WET FILM THICKNESS	3 - 10 mils (76.2 – 254 microns)
DRY FILM THICKNESS	2 - 8 mils (50.8 – 203.5 microns)
STANDARD COLORS	Dark Gray, Haze Gray, Buff
SHELF LIFE	1 Year (MIL-PRF-24667 Requirement)
FLASH POINT	102°F (>39°C) Mixed
PACKAGING	1 & 5 Gallon Kits

The responsibility for surface preparation and product application rests with the customer. ITW Polymers Sealants North America, Inc. will assume no liability or imply any warranty as to the serviceability of the products or application due to the fact we have no control over surface preparation, environmental conditions or application procedures. ITW Polymers Sealants North America, Inc. technical assistance is advisory only unless otherwise specified

CAUTION: Read Safety Data Sheet before using this material. Use only with adequate cross ventilation. Keep away from extreme heat, sparks and open flame. Keep from freezing. Avoid prolonged breathing of vapors. For dizziness, seek fresh air. Avoid contact with skin. Use gloves, goggles and coveralls. In case of spillage on clothing, change clothing to prevent prolonged contact with skin. Wash contaminated clothing before reuse. In case of accidental contact with skin, wash immediately with soap and water. In case of eye contact, flush thoroughly with plenty of water and call physician. If swallowed accidentally, do not induce vomiting. Seek medical attention immediately. The user of this product is responsible for making its own evaluation and tests regarding the capabilities, safety, utility, suitability and application of the product, and assumes all risks and liabilities resulting from the use or application of the product, whether used alone or with other products. ITW Polymers Sealants North America, Inc. (herein referenced to as the COMPANY) warrants only that the product conforms to the specifications contained in product Technical Data Sheets published By the COMPANY, a copy of which is available to the user. If the product fails to conform to this warranty, the user shall return the product within 10 days of the purchase date with a note specifying the defect and the COMPANY will either replace the product or at its option, return the purchase price. EXCEPT AS EXPRESSLY PROVIDED IN THIS PARAGRAPH, THE COMPANY MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND HEREBY DISCLAIMS THE SAME. In no event shall the COMPANY be liable to the user of this product, whether in contract or in tort or any other legal theory (including, without limitation, negligence), for damages which exceed the purchase price of the product, or for any indirect, incidental, consequential or similar damages, arising out of sale, use or application of the product, or for any claim made against the user by any other party, even if ITW Polymers Sealants North America, Inc. has been advised of the possibility of such claim.