AMERICAN SAFETY TECHNOLOGIES

TECHNICAL DATA SHEET – MS-8CZ

Revised:08/2023

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/cm^2 chloride contaminants, less than 10 mg/cm^2 of soluble ferrous ion levels, and less than 17 mg/cm^2 of sulfate contaminates 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

1. 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.
2. **MS-8CZ** should be applied to a minimum 2-3 mils (50-75 microns) dry film thickness above the measured surface profile.
3. **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' $^{3}/_{8}$" 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.
4. **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.
5. **MS-8CZ** does not require the usual induction period and may be applied immediately after mixing.
6. The primed surface should be protected from contamination. Block off area to prevent any foot or rolling traffic.
7. 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.
8. Areas not designated to receive non-skid within 7 – 10 days of primer application such as borders and tiedowns 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.
9. 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

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