

TECHNICAL DATA SHEET

MS-880G

FLEXIBLE EPOXY NON-SLIP DECK COATING

MIL-PRF-24667B Type III

Description

MS-880G is a high solids, two part flexible non-slip deck coating designed to provide maximum wear and impact resistance for U.S. Naval vessels.

Fire retardant in the cured state, **MS-880G** is resistant to fire and jet blast, most acids, alkalis, solvents, grease, oil, salt water, detergents, alcohol, gasoline, jet fuels, cellulube and other hydraulic fluids. Because of its tenacious bond, rust will not creep under the coating if fractured.

Recommended Uses

MS-880G is designed to be used in conjunction with the following American Safety Technologies MIL-SPEC and NAVSEA approved products: MS-7C or MS-10C Steel Primers, MS-200/MS-180 Color Toppings, BC-80 Wood Primer and MS-1600 intermediate membrane.

Applications uses include wood & plastic decks, flexing metal decks or unrigid surfaces.

Surface Preparation

MS-880G is recommended to be applied over MS-1600 flexible intermediate membrane which has been applied to level uneven flexible surfaces.

Metal Decks:

- Grit-blasting to SA 2.5 (near white metal) or SSPC-SP10 is the preferred method of cleaning and results in the best surface for adhesion for MS-7C or MS-10C Steel Primers.
- Where grit-blasting is not feasible, power tool cleaning utilizing power sanders fitted with #16 or #30 grit aluminum oxide sanding discs can produce a sufficiently clean surface.
- If there is oil or grease on the surface, it must be removed prior to cleaning. The preferred method is to scrub with a strong detergent and flush area thoroughly while still wet. 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.

Additional Information Available: WWW.ITWAST.COM

Specifications

V.O.C.

- 1.0 lbs. per gal.
(123 grams/liter)

Volume Solids (%)

- 95%

Pot Life

- 2 hours @ 70°F (21°C)

Hard Dry

- 24 hours @ 70°F (21°C)

Cure Time

- 7 days @ 70°F (21°C)

Estimated Coverage

- 25-35 sq. ft./gal. - roller
- 18-22 sq. ft./gal. - notched trowel

Weight per Gallon

- 17.3 lbs. per gal.
(2.0 kg./liter)

Flash Point

- 102°F (39°C)-CC

Coefficient of Friction

IAW Mil-SPEC 500 cycles

- Dry - 1.05
- Wet - 1.20

Packaging

- 5 gallon kits

Standard Color

- Dark Gray (36076)

Application

MS-880G is designed to be applied over a primer and membrane system.

1. **MS-880G** is two-part coating consisting of a base material and a hardener.
2. Pre-mix base component. Make sure all settlement is lifted off the bottom of the container and is uniformly dispersed in the material.
3. Pour entire contents of hardener can into base material. Mix hardener and base material with a mechanical mixer for approximately 3-5 minutes or until mixed material assumes a uniform color and appearance. Material can be immediately applied since induction time is not required.
4. Working pot life is approximately 2 hours at 70°F (21°C). Pot life is increased at lower temperatures and decreased at higher temperatures.
5. **MS-880G** can be applied at ambient temperatures between 50°F and 90°F. Curing time will increase substantially at below 50°F surface temperature. Application is not recommended when surface temperature is above 120°F or below 50°F. Avoid application during periods of high humidity.
6. **MS-880G** can be applied by roller or notched trowel.

Application Techniques

Roller:

1. Use a phenolic roller available from American Safety Technologies Inc. It is important that the rolled profile expose the maximum amount of non-slip aggregate. If aggregate is not properly exposed, the coating may become slippery when wet.
2. Pour a "ribbon" of **MS-880G** on the surface 2' to 3' long and approximately 6'-8' wide. Roll material in one direction only, in slow straight strokes pulling material toward you with a moderate amount of pressure on roller handle. Do not over-roll too many times or press down too heavily. Be careful that material does not build up too thickly along welds (roll across welds, not along them). Material applied too thickly may not properly cure.
3. Higher temperatures will shorten drying time and conversely, lower temperatures and high relative humidity will lengthen drying time. Exterior applications must be protected from rain at least 12 to 24 hours after application according to humidity. Protect from heavy or extended exposure to water, oil and chemicals for 5 to 7 days during final cure.

Notched Trowel:

1. Use a NAVSEA approved notched trowel.
2. Pour a "ribbon of **MS-880G** on the surface 2' to 3' long and approximately 6' to 8' wide. Spread material by pushing trowel forward.
3. Using an even stroke, pull the non-skid toward the applicator at a 60° angle from the deck to the handle. Remove any excess skid build-up from the squeegee prior to making second pass by hitting rubber insert on the deck. When pouring non-skid for continuation of ridge profile, pour non-skid on top of end trail to avoid gaps or low spots.
4. The applicator should obtain straight even strokes to give the area a uniform appearance.

CAUTION

Read Material Safety Data Sheet before using this material.

Contains epoxy resins. Catalyst contains Amines. Use only with adequate cross ventilation. Keep away from extreme heat, sparks and open flame. Avoid prolonged breathing of vapors. For dizziness, seek fresh air. Toxic material. 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. Discard contaminated shoes. 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.

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