

Water Based UV Resistant
Low V.O.C. Color Topping
MIL-PRF-24667B

Technical Bulletin # 2052

Product Description

MS-275 is a two part UV resistant water based epoxy coating formulated to meet the extreme demands placed on coatings in marine and industrial environments. A durable and tough epoxy resin system, which hold its color and gloss longer.

MS-275 has excellent appearance and can be applied over a wide range of primers and top coats. It provides outstanding recoatability. It provides maximum adhesion, toughness, wear resistance and excels in exterior weatherability. It is offered in a wide range of signal and safety colors.

Recommended Uses

MS-275 is qualified as a flight deck color topping for use by the United States Navy in conjunction with MIL-PRF-24667B approved non-skid & primer products. Typical areas of application include:

Marking Visual Landing Aids on air capable ships.
Helicopter landing pads.
Other primed surfaces not expected to receive non-skid.

Surface Preparation

MS-275 can be applied to any clean, dry surface, free of loose materials. Remove oil, grease, dirt and other foreign matter by cleaning with a water-based cleaner/degreaser or a cleaning solvent, then thoroughly flush with water and allow drying.

Refer to the MS-275 ASTM F-718 for detailed environmental limitations, surface preparation, mixing, and application instructions.

Mixing and Application

MS-275 is a two part coating consisting of a base material (Part A) and a hardener (Part B). Part A should be pre-mixed to ensure that a uniform appearance is achieved. Then add the part B to A and mix 2 to 3 minutes, then let the material **induct for 15 minutes** before applying.

IMPORTANT: Once catalyzed all the material must be used within 4 hours. IF THE MATERIAL IS USED AFTER THIS TIME IT MAY NOT CURE PROPERLY EVEN THOUGH IT STILL APPEARS LIQUID.

APPLICATION TECHNIQUES:

ROLLER - Use a short nap mohair roller. Apply uniformly.

BRUSH - Use a 4" wide thin stock brush.

SPRAY - Conventional, air spray or airless spray equipment can be used. For spray applications, use Graco #800 gun with a fluid tip of 0.70. Keep fluid pressure low, about 15 PSI. Excessive pressure can cause overspray problems.

For Airless applications, a Graco 30:1 Bulldog or 35:1 Senator is recommended. Tip sizes from 0.17 to 0.19 will provide a good spray pattern. Fluid hoses should be less than 3/8" ID with a maximum of 50 feet, not including short 1/4" ID whip hoses. Larger diameter hoses should be used with larger fluid lines.

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Long fluid lines with narrow ID fluid hoses will reduce fluid pressure at the gun, causing a poor spray pattern.

Clean tools and spray equipment immediately after completing installation using an epoxy solvent or Water.

Specifications

V.O.C:	1.09 lbs per gallon (130 grams/ liter)
VOLUME SOLIDS:	45-50 % by volume
POT LIFE:	1.5 hrs 70°F @ 50% RH (constant) 5 Gallon Kit
DRY TIME:	Tack Free – 4-5 hours@ 75°F (23°C) To Touch - 8-9 hours @ 75°F (23°C) To Recoat - 10-12 hours @ 75°F (23°C)
ESTIMATED COVERAGE:	320 sq. ft. /gal. @ 2.5 mils DFT/5 mils WFT
WEIGHT PER GALLON:	9.4 +/- 0.5 lbs. per gal. (1.14 kg/liter)
FLASH POINT:	>102°F (>39°C)-CC mixed
PACKAGING:	1 gallon Kit and 5 gallon Kit
COLORS:	Dark Gray (36076), Yellow (33538), Red (31136), White (37875), Green (14062)

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CAUTION

Read Material 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 Polymer Technologies (herein referenced to as the COMPANY) warrants only that the product conforms to the specifications contained in product Technical Data Sheets

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