



ONE STEELCOTE SQUARE • ST. LOUIS, MO 63103-2990 • (314) 771-8053 • FAX (314) 771-7581

SELECTION DATA

GENERIC TYPE: Proprietary Amido-Amine Cured Hybrid Epoxy Mastic Coating

PRODUCT DESCRIPTION: Epo-Mastic DTO is a surface tolerant coating. Epo-Mastic DTO is a specially formulated epoxy for applications to substrates that have been contaminated with petroleum oil, grease and vegetable oil. It is formulated for anti-corrosive application to concrete and masonry surfaces, as well as for steel surfaces. It may be used as a one coat primer/finish or may be topcoated when dry with other suitable color finishes. The high build formulation of this coating allows it to form a thick barrier coat to avoid "stain through" of oil, tar or asphalt. The product may also be applied over marginally prepared rusted steel and old existing coatings. It meets all current VOC regulations and can be applied in thicknesses from 6 mils (150 microns) to 25 mils (625 microns) in one coat, although thickness of application on oil contaminated surfaces should be a minimum of 7 mils (175 microns) on steel and 12 mils (300 microns) on concrete.

RECOMMENDED FOR: Excellent coating for oil or grease contaminated steel, concrete and masonry surfaces for both interior or exterior use. Also recommended for sewage and chemical plants and food processing areas that may have been contaminated by vegetable or petroleum oils. USDA authorized for use in Federally inspected meat and poultry processing plants.

NOT RECOMMENDED FOR: Immersion service other than salt, sewage or non-potable water. Do not apply at air or surface temperatures below 60°F. (15°C.)

PHYSICAL PROPERTIES

RESISTANCE TO: (Splash & Spillage)	Acids:	Good - Excellent
	Alkali:	Very Good
	Salts:	Excellent
	Oil/Grease:	Excellent
	Water:	Excellent
VOLUME SOLIDS:		82% +/- 2%
WEIGHT SOLIDS:		88% +/- 2%
MIX RATIO, WEIGHT:	100 Parts B to 124 Parts A	
MIX RATIO, VOLUME:	1 Part B to 1 Part A	
FLASH POINT:	80°F. (27°C.) TCC	
POT LIFE @ 77°F.:	8 Hours, Minimum	
SHELF LIFE:	1 Year, Minimum	
INDUCTION TIME:	1 Hour	
THINNER - REDUCTION:	Steelcote T-300	
THINNER - CLEAN UP:	Steelcote T-300	
APPLICATION TEMPERATURE:	50° - 100°F. (10° - 38°C.)	
SERVICE TEMPERATURE:	250°F. (120°C.) Maximum	
GLOSS:	Semi-Gloss	
COLOR:	Light Metallic Appearance	
PACKAGING:	2 gal. or 10 gal. Units	
WEIGHT PER GALLON:	11.3 lbs (5.1 kg) ± 2%	
V.O.C. (Volatile Organic Compound):	1.27#/gal, 152 g/l mixed 1.55#/gal, 186 g/l mixed @ 5% reduction 2.15#/gal, 258 g/l mixed @ 15% reduction	

COVERAGES

THEORETICAL COVERAGE:
1,312 sqft. per gallon @ 1 mil (25 microns)
Allow for application losses

RECOMMENDED WET FILM THICKNESS:
Steel: 9 mils (225 microns)
Concrete/masonry: 15 mils average (375 microns)

RECOMMENDED DRY FILM THICKNESS:
Steel: 7 mils (175 microns)
Concrete: 12 mils (300 microns) minimum,
25 mils (625 microns) maximum

DRYING TIME
@ 77°F. (25°C.) 50% RH

TO TOUCH:	8 - 10 Hours
TO RECOAT:	* 24 Hours
FINAL CURE:	7 Days

*Will vary with film thickness and surface oil.

RECOMMENDED FINISH COATS

Single-Package Urethane:	MCU 2100
Two-Package Urethane:	Epo-Lux Series Nos. 595 and 600
Epoxy-Polyamide:	Epo-Lux 121, Monomid
Epoxy Acrylic:	Tile-X 2000
Epoxy-100% Solids:	Colortop, BFB, Epo-Line 161

SURFACE PREPARATION

NOTE: As part of the DTO program, we have listed below the basic recommendations for surface preparation. These specifications follow industry standards. The use of Steelcote Epo-Mastic DTO is to enhance the ability to coat marginally prepared surfaces. It is a surface tolerant coating. Remove as much grease and oil as can be accomplished and install patch test after doing whatever surface preparation can be accomplished. The user should be totally satisfied with all aspects of the patch test before proceeding with a general coating program.

TO CONCRETE OR MASONRY: Where there is heavy oil or grease contamination, use a Dilemalene (orange oil) cleaner or suitable detergents for removal. Large floor areas may be cleaned using floor scrubbers and detergents. If water droplets bead on surface, further cleaning is indicated. Once the surface has been allowed to dry, the coating should be applied over that cleaned area the same day as cleaned. Allow an overlap on the cleaning area where the job is large and where it cannot be completed in one day so that the cleaning operation does not have to go back into the coated portion which would be uncured. Once surface is cleaned, the unpainted surface can be etched with Steelcote Clean & Etch and neutralized with two cups of aqua ammonia per five gallon pail of water and allowed to dry. A test or mock-up area of approximately 50 square feet should be applied to test the adequacy of cleaning and adhesion before proceeding. Wall areas may not require as thorough cleaning process as traffic areas on floors. Important: Once the Epo-Mastic DTO has been applied to the surface, allow to cure at least twenty-four (24) hours. If floor is cold, a longer curing time may be necessary before allowing heavy traffic or applying a topcoat where a topcoat is indicated for color or other purpose. Allow the product to dry at least "fingernail hard" before allowing traffic or topcoating. To test, lightly sand an area with coarse sandpaper. If sandpaper clogs, it is not dry enough. Epo-Mastic DTO, during the dry cycle, will absorb any remaining oil or grease during the curing process. Make certain any heavy build-up of oil or grease has been removed during the surface preparation phase. Do not apply in thinner film than specified as thick film is required to absorb remaining oil or grease into the film during the dry cycle. A thin application may cause failure to bond!

TO STEEL: Remove any grease, oil, dirt or surface contamination by solvent wiping with Toluol or T-300 in accordance with SSPC-SP1 specifications. Hand or power tool clean in accordance with SSPC-SP2 or SSPC-SP3 specifications in order to remove any loose rust or scale. For severe environments, sandblast in accordance with SSPC-SP7 (Brush-Off) specifications. If there are large areas of steel that are grossly contaminated with oil or grease, the steel should be water blasted with a suitable detergent, as in "Concrete or Masonry". Product should not be applied unless the surface temperature is at least 5°F.(3°C.) above the dew point.

TO EXISTING COATINGS: Apply over clean, sound paint only. Clean existing coating with either detergent (i.e., TSP, Soilax) or solvent wipe (SSPC-SP1) in order to remove any grease, oil, dirt or surface contaminants. If there are large areas of steel that are grossly contaminated with oil or grease or in severe environments, the steel should be either pressure cleaned with a suitable detergent added or steam cleaned prior to the brush blast. Brush blast (SSPC-SP7) after degreasing work.

MIXING INSTRUCTIONS: Before attempting to mix materials, warm product, if cold, to at least 70°F (20°C.). Before blending material, thoroughly stir both Parts A (dark color) and Part B (aluminum color) until homogeneous. Once well stirred, mix one can of Part A with one can Part B in a clean container for approximately five (5) minutes. **MAKE SURE MATERIAL IS COMPLETELY MIXED BEFORE APPLICATION!** Twenty minutes minimum induction time is necessary. Pot life is approximately 8 hours at 77°F. (25°C.). Do not apply below 60°F.(15°C.) surface and air temperature. Application at low temperature will retard dry and delay cure until temperature of surface and air is raised.

APPLICATION EQUIPMENT

APPLICATION: To assure the best possible adhesion over surfaces which may still have small amounts of oil or grease remaining in the concrete, it is our recommendation to apply by brush or roller. If the coating is to be sprayed, then it may be necessary to roll the coating after spraying to make mechanical contact with the surface to assure the surface is properly sealed and best adhesion is obtained. A test area application will determine proper procedure required.

BRUSH: Use a clean, natural bristle brush. Reduce up to 5% with T-300 if necessary.

ROLL: Use a clean, 1/8", short nap, mohair roller with a phenolic core. Reduce up to 5% with T-300 if necessary.

CONVENTIONAL SPRAY

Gun:	Binks 18 or equal
Fluid Nozzle:	66
Air Nozzle:	66 SF or 66 PE
Air Hose ID:	5/16"
Material Hose ID:	3/8"
Needle:	65
Pressure:	Pot: 15 - 20 psi
	Atomization: 60 - 90 psi

Use moisture and oil traps.
Clean up with Steelcote T-300.
Reduce up to 15% with T-300, if necessary.

AIRLESS SPRAY

Pump Ratio:	30:1
Gun:	Graco 205-592 or equal
Tip Size:	0.019 - 0.021
Fan Size:	8" - 10"
Pressure:	2500 - 3000 psi
Material Hose ID:	3/8" or 1/2"

Clean up with T-300.
Reduce up to 15% with T-300, if necessary.

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