



**HIGH SOLIDS, HIGH BUILD
DIRECT-TO-METAL POLYURETHANE
DTM SERIES**

DESCRIPTION: DTM series is a two-component modified-acrylic urethane enamel having good gloss and color retention. The hard slick Tecthane film is very resistant to abrasion, dirt, stains, acids, alkalis, solvents and petroleum fuels. Provides faster handle times and rapid film build without sagging. May be used direct to metal or over epoxy primers.

RECOMMENDED

USES: Designed for use in the transportation, chemical processing, oil field, marine, bridge, steel tank and miscellaneous equipment industries. An excellent top coat over epoxy coatings where gloss and color retention is paramount. Can be used over properly prepared primed and unprimed metal, masonry, fiberglass, plastic and wood. Dries quickly with outstanding gloss. Has outstanding acid resistance. Higher film build and more economical than our HSU series.

RECOMMENDED

PRIMERS: DTM: performs well on clean metal
Iron/Steel: Severe Environments: TS-140 Epoxy Primer (thin film) intermediate coat
LCE-1009 Epoxy Primer (high-build film)
E-8001 Epoxy Primer (best chemical resistance)
E-6002 Epoxy Primer (high-build film) last coat

TECHNICAL DATA
(based on DTM-901 White)

THEORETICAL COVERAGE: 950 – 1,000

sq. ft. per mixed gallon at 1.0 mil dry

RECOMMENDED DRY FILM THICKNESS:

2 – 4.5 mils

VISCOSITY: 75 – 95 Krebs Units

ENVIRONMENTAL CODES:

V.O.C. 2.9 ± 0.15 lb./gal

POT LIFE @ 70° F.: 3 - 4 hours

SOLIDS CONTENT: 61 ± 2% by volume,

70 ± 2% by weight

SHELF LIFE: 12 months (unopened)

MIXING RATIO: By volume; 4 parts base,

1 part activator and ½-1 part Reducer

Conventional spray- 4:1:1

Airless-4:1:½

GLOSS: 90+ at 60°

WEIGHT/GALLON: 11.0 – 12.0 lb. (mixed)

THINNER: R-3099 (cool, moderate weather)

R-3199 (hot, windy weather)

R-3100 (extreme temperatures)

FLASH POINT: 16° F.

DRYING TIME @ 70° F., 50% R.H.:

To touch: 1 hour

To handle: 2 – 4 hours

To recoat: max. – exhibits long-term recoatability
min. – 5 to 8 hr (dependent on conditions
and film build)

Full cure: 5 - 7 days

TEMPERATURE LIMIT(DRY): 200° F.

SAG RESISTANCE: Greater than 9 mils

CHEMICAL RESISTANCE

Exposure	Splash and Spillage	Fumes
Acids	Very good	Excellent
Alkalis	Excellent	Excellent
Solvents	Very good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

IMPORTANT INFORMATION

INDUCTION TIME: Allow 5 minutes after mixing, reducing and straining before using.

APPLICATION TEMPERATURE: Optimum: 70° F. to 90° F. at 50% relative humidity. Do not apply when the product, surface or air temperature is below 55° F. or at any temperature when the ambient air temperature is within 5° F. of the dew point to prevent moisture from condensing on the surface to be painted or on the freshly painted surface.

CHEMICAL RESISTANCE: Completely cured film is resistant to spillage or fumes of alkalis, acids, solvents, salts, gasoline, diesel oil, water and hydrogen sulfide gas.

MIXING & THINNING: Thoroughly mix 4 parts of enamel (DTM-901), 1 part WTA-100 (activator) and appropriate reducer. Mix 4:1:1 for conventional spray and 4:1:1/2 with airless application, depending on conditions. Only the amount of coating needed should be mixed at any one time. Once mixed the coating should be used within 2-4 hours. Mixed product has hazards of all components. Read and observe precautions on the labels and Material Safety Data Sheet.

METHOD OF APPLICATION: Use conventional or airless spray, 4-15 to 4-19 tip. Apply a light tack coat to fully wet the surface with attention to edges and corners, followed by a wet cross hatch coat.

SURFACE PREPARATION: Surface to be painted must be free from rust, loose paint, dirt, oil, wax, soap residue, grease, other contaminants and otherwise properly prepared.

WOOD: Must be dry and clean. Sand with non-steared paper, remove sand dust and apply **two** coats of this product.

IRON AND STEEL: Good protection when applied direct to metal. For maximum protection in corrosive and severe environments prime with E-8001 or LCE-1009 Epoxy Primer. Where good corrosion resistance is important and only a mild chemical and solvent resistance is needed, prime the metal with P-523 Primer or AEP-8989 Primer.

ALUMINUM: Apply a coat of TS-140 Epoxy Primer then follow with this product.

MASONRY: Abrasive-blast clean or acid-etch wash and allow to dry. Apply a coat of high-build epoxy primer thinned 20% prior to applying this product.

POLYESTER FIBERGLASS: Clean well to remove dirt or mold release chemicals. Scuff sand the surface and apply **two** coats of this product directly to the substrate with no priming necessary. If preferred, TS-140 Epoxy Primer may be applied as the first coat.