



"Innovative Coatings for Your Environment"®

PRODUCT DATA

WATER-TUFF® DTM

Description:	Water-Tuff® DTM is a high build, direct to metal acrylic to be applied as a finish coat for the exterior of railcars and steel buildings.
Features:	Direct to Metal High gloss to matte finish VOC compliant to Zero VOC Excellent build on edges Excellent wetting and adhesion properties Fast Drying
Performance:	Salt Spray (ASTM B 117) 336 hours No blistering, rusting and no creep at scribe: Pass Impact resistance (ASTM D 2794) Direct impact >100 in-lbs Reverse impact >100 in-lbs Flexibility (ASTM G53& G522) 180 degree bend over ¼ mandrel. No cracking flaking or loss of adhesion: Pass Adhesion (ASTM D 3359) 5B QUVB (ASTM G53) 336 hours Gloss Retention >80% Humidity Resistance (ASTM 2247) No blisters or creepage at the scribe: Pass Dry Temperature resistance (non-immersion) Continuous 160°F Theoretical volume solids 39±3% Theoretical coverage of gallon (1 mil) 624 sq. ft. Note: May vary with color and/or gloss.



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Film Thickness:	Dry film thickness: Minimum 4 mils Maximum 8 mils Wet film thickness per coat: 12 to 15 mils Maximum wet film thickness per coat is 18-22 mils. Above 18-22 mils WFT, the coating can blister and or mudcrack.
Colors:	Water-Tuff® DTM custom colors are available.
Flash Point: (Setaflash):	>200°F
Shelf Life:	1 year when stored inside at 40°F to 100°F.
Surface Preparation:	Remove oil and grease from the surface with solvent or a commercial cleaner, which does not leave a residue according to SSPC-SP1. Steel: Abrasive blasting is preferred when possible as the performance is enhanced. For normal environments, abrasive blast to a Commercial finish per SSPC-SP 6 to obtain a 1 ½ to 3 mil profile. For immersion conditions, abrasive blast to a Near-white finish per SSPC-SP 10 to obtain 1 ½ to 3 mil profile. For touch up areas, which do not permit abrasive blasting, Hand Tool cleaning per SSPC-SP 2, Power Tool cleaning per SSPC-SP 3 or High Pressure Water cleaning per SSPC-SP12/NACE 5 WJ-4 is recommended.
Mixing:	Power mix thoroughly.
Thinning:	Thinning is not required for most applications.
Limitations:	Apply only in good weather. Do not apply unless air, surface, and material temperature is at least 50°F (10°C). Do not apply unless surface temperature is at least 5°F (3°C) above the Dew Point or when it is likely that moisture will contact surface of wet film. Do not use in immersion or high temperature service. DO NOT ALLOW TO FREEZE. Store at temperatures between 60°F (15°C) and 100°F (38°C).



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Application Conditions:	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>
Minimum	50°F	50°F	50°F
Maximum	90°F	90°F	90°F

Note: Special thinning and application procedures are required outside these temperatures. Surface temperatures should be 5°F above dew point to prevent condensation.

Application Equipment:

Airless Spray: Sprayer such as Graco's Bulldog with a 30:1 ratio and a .017" to .021" tip is recommended. A 30 mesh inline filter is recommended.

Brush or Roller: Use medium brush and short nap roller with solvent resistant fibers and core.

Drying Time:

The following minimum times are based on a 4 mil DFT and adequate air ventilation. Higher humidity, increased film thickness and reduced air circulation will increase drying times.

Surface Temp.	To Touch	To Handle	Final Cure
50°F	12 hrs.	32 hrs.	4 days
60°F	6 hrs.	18 hrs.	2 days
70°F	3 hrs.	8 hrs.	1 day
80°F	1 hrs.	3 hrs.	10 hrs.
90°F	0.5 hr.	2 hrs.	4 hrs.

Maximum Re-coat:

Water-Tuff® DTM has an unlimited re-coat window over itself. It is imperative that the surface be cleaned and pressure washed prior to re-coating.

Cleanup:

Cleanup with water.

* Independent Lab report available upon request.

Water-Tuff DTM 04192019 DEL
H/Users/WP51/Rail Packet

The technical data furnished herein is accurate to the best of our knowledge and we guarantee our products to conform to Davis-Frost quality control. However, we can assume no liability for our products' coverage, performance or suitability for end use, since these factors are beyond our control. Neither can we assume liability for damages, injury or delays resulting from use of Davis-Frost materials. Liability, if any, is limited to replacement of defective materials or to a monetary value not to exceed the purchase price of materials. Technical data is subject to change.