



**IMA 500**  
**COROTILE®**  
 DTM Urethane Alkyd Enamel  
 M13 Line

Coronado Industrial Coatings - 308 Old County Road · Edgewater, Florida 32132 · 800-883-4193 · FAX 800-394-9022

## COROTILE® DTM Urethane Alkyd Enamel

### M13 Line

Type	Sheen	Theoretical Spread Rate	Recommended Application	Thinner	Clean Up
Urethane Alkyd	Semi-Gloss	300 – 400 Sq. Ft. Per Gallon*	Roller, Brush. Airless or Air Spray	Mineral Spirits	Mineral Spirits
<b>Touch Dry Time:</b>	6 Hrs. @55°F 2 Hrs. @77°F 1 Hr. @100°F	<b>Min Recoat:</b>	72 Hrs. @55°F 24 Hrs. @77°F 12 Hrs. @100°F	<b>Max Recoat :</b> Unlimited	

<b>PRODUCT NAME:</b> M13 Line COROTILE® DTM Urethane Alkyd Enamel	COROTILE® DTM Urethane Alkyd Enamel is a rust inhibitive semi-gloss product designed as a medium duty finish. The surface wetting inherent in the formulation allows for minimal surface preparation. The ease of application allows for an aesthetically pleasing finish, with good protective qualities. Corotile® DTM Urethane Alkyd Enamel is designed for interior or exterior applications. The urethane modification far surpasses the performance of straight alkyd formulations in exterior exposures. This product may be used direct to ferrous metal.	
<b>WHERE TO USE:</b>	<b>Ferrous Metal</b>	COROTILE® DTM Urethane Alkyd Enamel is designed as a rust preventative coating for ferrous metal.
<b>SURFACE PREPARATION:</b>	<p>The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils and accumulated salts must be removed prior to employing specific surface preparation methods. SSPC-SP1 Solvent Cleaning will best accomplish this task.</p> <p><b>Ferrous Metal:</b> All rust and mill scale should be removed prior to application of this product. This is best accomplished by abrasive blasting. A minimum of SSPC-SP6 Commercial Blast is recommended for severe environmental exposures. Small areas may be cleaned in accordance with SSPC-SP2 Hand Tool Cleaning or SSPC-SP3 Power Tool Cleaning or SSPC-SP11 Power Tool Cleaning to Bare Metal. This product is designed for direct use on ferrous metals; however, for additional corrosion protection the use of a rust inhibitive primer may be necessary.</p>	
<b>APPLICATION:</b>	<p>Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this task. Application in normal temperatures (45 to 90°F) or normal humidities (30 to 95%) should not require thinning. SEE THINNING INSTRUCTIONS ON PAGE THREE.</p> <p><b>Roller:</b> Short nap cover with phenolic core.  <b>Brush:</b> Natural Bristle only.  <b>Airless:</b> Tip range between 13 and 17 thousandths. Total fluid output pressure at tip should not be less than 2400 psi.  <b>Air Spray (Pressure Pot):</b> DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.</p> <p>NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner.</p> <p>Application temperatures should be in the range of 45°F and 95°F, and humidity in the range of 5 to 95%.</p>	
<b>*NOTE ON SPREAD RATE:</b>	Actual spread rate will vary based upon numerous factors, including texture of the substrate, application method, waste, surface porosity and thinning. The Theoretical Spread Rate listed on this document has not taken into account these factors and is only based upon the volume solids of this product and the recommended wet film thickness when applied to a smooth substrate.	
<b>STORAGE:</b>	24 months at 77°F in original unopened container. Prolonged storage at higher temperatures can shorten the shelf life. Store in dry, shaded area away from heat and ignition sources. Protect from frost and freezing.	

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<b>TINTABILITY:</b>	COROTILE® DTM Urethane Alkyd Enamel is available in a full line of bases as well as satin black. Additionally, custom colors can be produced in minimum batch quantities.	
<b>RESIN TYPE:</b>	Urethane Alkyd	
<b>VOLUME SOLIDS:</b>	44 ± 1.0%	
<b>WEIGHT PER GALLON:</b>	10.3 lbs.	
<b>MIX RATIO:</b>	N/A (One Component Material)	
<b>INDUCTION TIME:</b>	N/A (One Component Material)	
<b>POT LIFE:</b>	N/A (One Component Material)	
<b>FLASH POINT:</b>	102°F (TT-P-141, Method 4293)	
<b>SPECULAR GLOSS:</b>	55-65% @ 60°	
<b>WET FILM THICKNESS:</b>	4.0 to 5.3 mils	
<b>DRY FILM THICKNESS:</b>	1.8 to 2.4 mils	
<b>CAUTIONS (Statements are for white, other colors may vary):</b>	<p style="text-align: center;"><b>DANGER!</b>  <b>Contains Mineral Spirits.</b>  COMBUSTIBLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED.  Causes eye, nose, throat and skin irritation.</p> <p><b>NOTICE:</b> Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.</p> <p><b>Use only with adequate ventilation.</b> Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat and flame.</p> <p><b>First Aid:</b> In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting. Get medical attention immediately.</p> <p>If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.</p> <p style="text-align: center;"><b>Obtain and read the MSDS prior to using this product.</b>  <b>KEEP OUT OF REACH OF CHILDREN</b></p>	
<b>SPECIAL NOTE:</b>	In areas that are not subject to the regulatory VOC limit of 340 grams/liter as adopted by those states or districts that have imposed the OTC requirements, this product is compliant with and is suitable for use as an Industrial Maintenance Coating; when used in industrial applications only, this product may be used on all substrates. Please contact your Coronado Sales rep for any clarifications regarding this use.	
<b>VOC/VOS STATEMENT:</b>	This product contains a maximum of 400 grams of VOC/VOS per liter of coating. (3.3 pounds per gallon)	
<b>OTC CATEGORY:</b>	This product is compliant under the Ozone Transport Commission regulations as a Rust Preventive Coating.	
<b>CHEMICAL ABSTRACT: (For white, other colors may vary)</b>	<b>INGREDIENT</b>	<b>CAS #</b>
	Mineral Spirits	8052-41-3
	Titanium Dioxide	13463-67-7
	Aluminum Silicate	1332-58-7
	Urethane Modified Alkyd Resin	Proprietary
	Inorganic Zinc Compound	64539-51-1

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**TEST DATA**

<b>Accelerated Weathering (ASTM G53)</b>	70% Retention after 500 Hours
<b>Abrasion Resistance (ASTM D4060)-CS10 Wheel</b>	120mg loss after 1000 cycles
<b>Salt Fog Resistance (ASTM B117) Two coats over 35 Line primer</b>	500 Hours-Pass (Rating 10, Rust Area 0.00%)
<b>Dry Heat Resistance</b>	300°F
<b>Wet Heat Resistance</b>	160°F
<b>Adhesion (ASTM D3359)</b>	5B
<b>Flexibility (ASTM D1737)</b>	Pass 1/4" Mandrel

**CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)**

<b>Fresh Water</b>	Excellent
<b>Salt Water</b>	Good
<b>Acids</b>	Fair
<b>Alkalis</b>	Fair
<b>Solvents</b>	Fair
<b>Fuel</b>	Fair
<b>Acidic Salt Solutions</b>	Good
<b>Alkaline Salt Solutions</b>	Good
<b>Neutral Salt Solutions</b>	Good

**QUALIFICATIONS**

Line meets USDA Qualifications for Incidental Food Contact.
Line meets performance requirements of TT-E-490
M13-36 (tinted) meets the performance requirements of TT-P-485
Line meets the performance requirements of TT-E-1793
M13-38 (tinted) meets the performance requirements of DOD-E-24654
Line meets the requirements of SSPC Paint #104

**SYSTEMS RECOMMENDATIONS  
COMPATIBLE PRIMERS**

820 Line, 1220 Line, 1147 Line, 180-11, 1280 Primers, 892 Primers, 317 Line, 316 Line, M35 Line, 100-10, 925 Line, 954-11, 48 Line, 116-11, 117-11, 119-11, 37-11
For coatings other than listed above, or for usage in severe environmental conditions, please consult with Coronado Industrial Coatings technical service.

**WARRANTY**

Coronado Paint Company warrants its products to be free from defects in materials and workmanship. Coronado Paint Company's sole obligation and the purchaser's exclusive remedy shall be limited, at Coronado Paint Company's option, to either replacement of nonconforming products or credit to the purchaser's account in an amount not greater than the original purchase price of the nonconforming products. Any claim under this warranty must be made by the purchaser, in writing to Coronado Paint Company, within ten (10) days of the purchaser's discovery of the claimed defect, but not later than the expiration of the applicable shelf life, or one year from the original delivery date, whichever is earlier. Purchaser's failure to notify Coronado Paint Company of any nonconformance as required shall bar the purchaser from recovery under this warranty.

Coronado Paint Company makes no other warranties, expressed or implied, such as merchantability or fitness for a particular purpose concerning its products. In no event shall Coronado Paint Company be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the usage of products made by Coronado Paint Company, whether in the form of literature, data, or in response to specific inquiry, or otherwise is based upon information believed to be reliable; however the products and information are intended for use by skilled and knowledgeable purchasers, and is therefore for the purchaser to satisfy itself of the suitability of the products for its own specific use, and it shall be deemed that the purchaser has done so, at the sole discretion and risk. Variation in application conditions, ambient conditions or extrapolation of information may cause unsatisfactory results.

**LIMITATION OF LIABILITY**

Coronado Paint Company's liability on any claim, including claims based upon negligence, or strict liability for loss, or damage arising out of, connected with, or resulting from the use of products, shall in no case exceed the purchase price of the products directly giving rise to the claim. In no event shall Coronado Paint Company be liable for consequential or incidental damages.

**THINNING RECOMMENDATIONS:**

Do not thin more than local regulations allow.  
Thin with Mineral Spirits Only.

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