



# ACRYLIC DTM ENAMEL SEMI-GLOSS V331

## Features

- For light-to-moderate industrial, commercial and select residential use
- Excellent for metal, as well as wood, masonry, drywall and other surfaces
- Interior/Exterior Use
- Resists flash rust on metal
- Excellent for all corrugated metal sheeting
- Can be used on galvanized and aluminum metal

## Recommended For

Carbon Steel, Iron, Aluminum, Galvanized, Other Non-Ferrous Metals, Concrete, Masonry, Wood, Fiberglass, Drywall. Corotech® Acrylic DTM Enamel is designed for use in Food and Beverage Processing, Industrial Maintenance, General Metal Finishing / Fabrication, Chemical Processing.

## General Description

Acrylic DTM Enamel is a tough waterborne acrylic enamel that fights rust on metal and provides a smooth, durable finish on wood, drywall and masonry substrates. A special inhibitor in the formula prevents flash rust when applied to ferrous metal, and the smooth dry film is UV and moisture resistant.

## Limitations

- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C) - Relative humidity should be below 90%.
- Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.
- Not for immersion service.
- Not recommended for coating over Kynar® or similar finishes.

## Product Information

<b>Colors — Standard:</b> White (01)	<b>Technical Data</b> <sup>◇</sup> <b>White</b>						
<b>— Tint Bases:</b> Pastel Base (85), Tint Base (86), Deep Base (87), Clear Base (88) Tint with Universal Colorants Only	Vehicle Type <span style="float: right;">Acrylic</span>						
<b>— Special Colors:</b> Contact your retailer	Pigment Type <span style="float: right;">Titanium Dioxide</span>						
<b>Certification &amp; Qualifications:</b>  The products supported by this data sheet contain a maximum of 250 grams per liter VOC / VOS (2.09 lbs. /gal.) excluding water & exempt solvents. Meets Performance Requirements of TT-P-1511 Meets Requirements for SSPC # 24 Suitable for use in USDA inspected facilities Masters Painters Institute MPI # 153, 163	Volume Solids <span style="float: right;">43 ± 2%</span>						
	Coverage per Gallon at Recommended Film Thickness <span style="float: right;">300 – 350 Sq. Ft.</span>						
<b>Technical Assistance:</b> Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit <a href="http://www.benjaminmoore.com">www.benjaminmoore.com</a>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Recommended Film Thickness</td> <td style="width: 20%; text-align: center;">– Wet</td> <td style="width: 20%; text-align: right;">4.6 – 5.3 mils</td> </tr> <tr> <td></td> <td style="text-align: center;">– Dry</td> <td style="text-align: right;">2.0 – 2.3 mils</td> </tr> </table>	Recommended Film Thickness	– Wet	4.6 – 5.3 mils		– Dry	2.0 – 2.3 mils
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	Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.						
	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Dry Time @ 77 °F (25 °C) @ 50% RH</td> <td style="width: 20%; text-align: center;">– Tack Free</td> <td style="width: 20%; text-align: right;">1 Hour</td> </tr> <tr> <td></td> <td style="text-align: center;">– To Recoat</td> <td style="text-align: right;">4 Hours</td> </tr> </table>	Dry Time @ 77 °F (25 °C) @ 50% RH	– Tack Free	1 Hour		– To Recoat	4 Hours
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	High humidity and cool temperatures will result in longer dry, recoat and service times.						
	Dries By <span style="float: right;">Coalescence</span>						
	Viscosity <span style="float: right;">82 ± 4 KU</span>						
Flash Point <span style="float: right;">200 °F or Greater (TT-P-141, Method 4293)</span>							
Gloss / Sheen <span style="float: right;">Semi-Gloss (45 – 55 @ 60°)</span>							
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Thin With <span style="float: right;">Water</span>							
Clean Up Thinner <span style="float: right;">Warm, Soapy Water</span>							
Weight Per Gallon <span style="float: right;">10.5 lbs.</span>							
<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Storage Temperature</td> <td style="width: 20%; text-align: center;">– Min.</td> <td style="width: 20%; text-align: right;">45 °F</td> </tr> <tr> <td></td> <td style="text-align: center;">– Max.</td> <td style="text-align: right;">95 °F</td> </tr> </table>	Storage Temperature	– Min.	45 °F		– Max.	95 °F	
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<b>Volatile Organic Compounds (VOC)</b>  196 Grams/Liter    1.64 Lbs./Gallon							

◇ Reported values are for White.

## Acrylic DTM Enamel Semi-Gloss V331

### Surface Preparation

Prior to painting any surface, remove all grease, dirt and other surface contamination by applying a solution of Corotech® Oil & Grease Emulsifier V600. Remove all remaining loose paint, rust and mill scale via Hand Tool Cleaning (SSPC-SP2) or Power Tool cleaning (SSPC-SP3). Fill holes and cracks and sand smooth. Glossy surfaces must be fully deglossed. Moderate to heavily rusted areas must be thoroughly prepared and active rust should be properly removed.

**Ferrous Metal:** Remove any active rusted areas according to the surface preparation instructions. Apply directly to properly prepared, ferrous metal surfaces. Additional protection can be attained by using a rust inhibitive primer. Apply one or two finish coats as needed. For enhanced adhesion and durability, apply Corotech® Waterborne Bonding Primer V175 prior to top coating.

**Non-Ferrous Metal (Galvanized & Aluminum):** Galvanized steel normally comes from the mill chemically treated or passivated, to prevent white rusting or oxidation of the galvanized surface during the time it is being stored or shipped to the job site. Due to this, the surface must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier V600 or solvent wiping in accordance with SSPC-SP1 prior to coating. Apply one or two finish coats as needed. For enhanced adhesion and durability, apply Corotech® Waterborne Bonding Primer V175 prior to top coating.

**Wood Surfaces:** Prime bare spots and new wood with a quality acrylic primer. Apply one or two finish coats as needed.

**Plaster and Dry Wall:** Prime new drywall and fully cured plaster with a quality acrylic primer. Apply one or two finish coats as needed.

**Concrete Surfaces:** Allow new concrete to age for a minimum of 30 days. New or old unpainted concrete should be etched with a muriatic acid solution and then rinsed thoroughly with water. Be sure to follow the manufacturer's instructions when mixing and using solution. (Protect skin and eyes by wearing rubber gloves and goggles.) Rinse surface thoroughly with clean water. Allow surface to dry completely before coating. Old painted concrete should be sanded. Prime with a quality acrylic primer. Apply one or two finish coats as needed.

**Glossy Surfaces:** Glossy surfaces must be deglossed to obtain a surface profile prior to coating. The preferred method is thoroughly sanding the surface area. Areas that cannot be properly deglossed should be primed with Corotech® Waterborne Bonding Primer V175 prior to finish coating.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Informational Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

### Application

Mix the product thoroughly before application. The use of a low speed drill mixer is recommended.

Thin with Water only.

**Airless Spray (Preferred Method):** Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2400 psi.

**Air Spray (Pressure Pot):** DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

**Brush:** Synthetic Bristle only.

**Roller:** Short Nap Cover (Less than ½").

**NOTE:** Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/8" Mandrel
Dry Heat Resistance	200 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Pass 5B
Salt Spray (ASTM B117) (2 Coats over V110; 1000 Hours)	Rust Breakthrough: 10 Rust Area: 0.01%
Abrasion Resistance (ASTM D4060) CS-17 Wheel, 1000 Cycles, 1000 g Load	100 mg Loss
Accelerated Weathering (ASTM G53) 500 Hours	90% Gloss Retention < 0.25 DE Color Change (CMC)

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Good
Acids	Fair
Alkalis	Fair
Solvents	Not Recommended
Fuel	Not Recommended
Acidic Salt Solutions	Fair
Alkaline Salt Solutions	Fair
Neutral Salt Solutions	Good

SYSTEMS RECOMMENDATIONS	
COMPATIBLE PRIMERS & INTERMEDIATES	
V130, V131, V132, V133, V140, V142, V155, V150, V160, V163, V110, V114, V170, V175 and Other Acrylic and Alkyd Primers	
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

### Clean Up

Clean with warm, soapy water.

### Environmental Health & Safety Information

#### WARNING!

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.



**WARNING** Cancer and Reproductive Harm—  
[www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN  
FOR PROFESSIONAL USE ONLY  
KEEP FROM FREEZING**

**Refer to Safety Data Sheet for  
additional health and safety information.**