



# DTM MASTIC URETHANE GLOSS V570

## Features

- Direct-to-metal, including tightly adhered rust
- Provides excellent abrasion and chemical resistance
- Excellent gloss and color retention
- Fast dry time

## Recommended For

Properly prepared steel, iron and non-ferrous metals as well as masonry surfaces. Ideal for general metal finishing / fabrication, chemical processing, commercial structures, tank exteriors and other areas requiring a long life, performance urethane.

## General Description

DTM Mastic Urethane is a two-component urethane designed for protecting metal surfaces. This product provides excellent gloss and color retention as well as superior abrasion, chemical, and solvent resistance. **This is a two component product that requires 4.2 parts of the proper "A" component mixed with 1 part of part "B" catalyst, V570.90. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.**

## Limitations

- Do not apply if air or surface temperatures are below 40 °F or above 100 °F
- This product is not for immersion service.

## Product Information

### Colors — Standard:

White (Tintable) (86), Black (80)

### — Tint Bases:

White (Tintable) (86), Deep Base (87), Clear Base (88)

Tint with Industrial Colorants Only

### — Special Colors:

Contact your retailer.

### Certification & Qualifications:

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.

VOC REGION	COMPLIANT
FEDERAL	YES
OTC	YES
OTCII	YES
CARB	YES
CARB07	YES
UTAH	YES
AZMC	YES
SCAQMD	NO

### Technical Assistance:

Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit [www.benjaminmoore.com](http://www.benjaminmoore.com)

### Technical Data

White (Tintable)	
Generic Type	Mastic Urethane
Pigment Type	Titanium Dioxide
Volume Solids (mixed as recommended)	70% ± 2.0%
Coverage per Gallon at	250 – 315 Sq. Ft.
Recommended Film Thickness	
Recommended	– Wet 5.1 – 6.5 mils
Film Thickness	– Dry 3.5 – 4.5 mils
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.	
Dry Time @ 77 °F	– To Touch 1 – 2 Hours
(25 °C) @ 50% RH	– To Recoat 8 Hours
	– Full Cure 72 Hours
*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.	
Dries By	Chemical Cure
Dry Heat Resistance	300 °F
Viscosity @ 77 °F (mixed as recommended)	65 – 75 KU
Flash Point	98 °F (TT-P-141, Method 4293)
Gloss/Sheen	Gloss (85 – 95 @ 60°)
Surface Temperature	– Min. 40 °F
at application	– Max. 100 °F
Surface must be dry and at least 5° above the dew point	
Thin With	Do Not Thin
Clean Up Thinner	Corotech® V700 Urethane Reducer
Mixed Ratio (by volume)	4.2 : 1
Induction time @ 77 °F (25 °C)	10 Minutes
Pot Life @ 77 °F (25 °C)	2 Hours
Weight Per Gallon	11.0 lbs.
(mixed as recommended)	
Storage Temperature	– Min. 40 °F
	– Max. 90 °F

### Volatil Organic Compounds (VOC)

235 Grams / Liter\* 1.96 LBS / Gallon\*  
\* Catalyzed

## DTM Mastic Urethane Gloss V570

### Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. Removal of all contaminants should be completed in accordance with SSPC-SP 1 using Corotech® V600 Oil & Grease Emulsifier followed by specific preparation methods as indicated on primer data sheets. Rust and mill scale must be removed from carbon steel and iron substrates as outlined on specific primer data sheets. Surface to be coated must be clean, sound and dry. Fresh concrete must age at least thirty days before coating. All oil, grease, release agents, curing compounds, concrete hardeners, laitance and other contaminants must be removed before coating.

#### NEW SURFACES

**Steel:** Blast selection and choice of primer will be dependent on the severity of exposure and degree of protection required. Maximum protection will be attained using an SSPC- SP 10 Near White Metal Blast followed by 1 coat of Corotech® V150 Epoxy Primer or 1-2 coats of Corotech® DTM Mastic Urethane. Please contact your Corotech® representative or technical service for recommendations on less severe applications.

**Galvanized and Non Ferrous Metals:** Solvent clean all surfaces. Apply 1 coat of Corotech® V110 Acrylic Metal Primer or Corotech® V175 Waterborne Bonding Primer. Can also use most epoxy primer and intermediate coatings.

**Concrete:** All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturer directions and safety instructions. Prime concrete with 1 coat Corotech® V155 Epoxy Pre-Primer followed by a topcoat of Corotech® DTM Mastic Urethane

**Previously Painted Surface:** Can be applied over old thermoset finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. If lifting occurs, Corotech® V155 Pre-Primer may be used over all existing coatings as a barrier coat.

**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 "A" and "B" components thoroughly before mixing together. The use of a drill mixer at low speed will best accomplish this task. Add the full contents of the quart size "B" component to the gallon size "A" component and thoroughly mix the two together. Allow 10 minutes @ 77 °F induction or "sweat-in" time (@ 77 °F) prior to applying the mixed product to the substrate. Do not apply Corotech® DTM Mastic Urethane if air or surface temperatures are below 40 °F or above 100 °F, or in relative humidity levels greater than 85%, or if surface or air temperatures are within 5 degrees of the dew point. Product should be allowed to dry tack free prior to air or surface temperatures being within 5 degrees of the dew point.

**Airless Spray (Preferred Method):** Tip range between .013 and .017. 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.

**NOTE:** Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.

**Roller:** Industrial Cover with Phenolic core and a nap size of ¼" to ½".

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/4" Mandrel
Dry Heat Resistance	300 °F
Wet Heat Resistance	125 °F
Adhesion (ASTM D3359)	Pass 5B
Accelerated Weathering (ASTM G53) 1000 Hours 1 coat V150, 2 coats V570	95% Gloss Retention < 1.5 DE Color Change (CMC)
Salt Fog Resistance (ASTM B117) 400 Hours (Same system as above)	Rust Breakthrough: 10 Rating Rust Area: 0.01%
Abrasion Resistance (ASTM D4060) Taber (CS-17 Wheel, 1000g load, 1000 cycles)	44 mg. loss

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Excellent
Alkalis	Excellent
Solvents	Excellent
Fuel	Excellent
Acidic Salt Solutions	Excellent
Alkaline Salt Solutions	Excellent
Neutral Salt Solutions	Excellent

SYSTEMS RECOMMENDATIONS	
PRIMERS	
Ferrous Metal (Blasted)	V150, V155 or V160
Ferrous Metal (Marginally Prepared)	V155 or use direct
Non-Ferrous Metal	V110 or V175
Concrete	V155, V163, or V400
Aged coatings	Use Direct (Check Compatibility) or use V110 or V155 as a barrier Coat
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

## DTM Mastic Urethane Gloss V570

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### Clean Up

V700 Urethane Reducer.

### Environmental Health & Safety Information

#### Danger

**Harmful if inhaled**

**Harmful if swallowed**

**May cause allergy or asthma symptoms or breathing difficulties if inhaled**

**May cause an allergic skin reaction**

**May cause cancer**

**May cause respiratory irritation. May cause drowsiness or dizziness**

**May cause damage to organs through prolonged or repeated exposure**

#### Flammable liquid and vapor

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Keep away from heat/sparks/open flames/hot surfaces, no smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep cool.

**Response:** If exposed or concerned get medical attention. If skin irritation or rash occurs get medical attention. Wash contaminated clothing before reuse. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. If swallowed call a POISON CENTER or physician if you feel unwell. Rinse mouth. In case of fire use CO<sub>2</sub>, dry chemical, or foam for extinction.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

**IMPORTANT:** Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

**CAUTION:** All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.



**WARNING:** This product can expose you to chemicals including Carbon Black, which are known to the State of California to cause cancer, and Toluene which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [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**

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