



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 4.4 °C (40 °F) or above 37.8 °C (100 °F)
- This product is not for immersion service.

Product Information

Colours — Standard: White (Tintable) (86), Black (80)	Technical Data		White (Tintable)
	Generic Type		Mastic Urethane
— Tint Bases: White (Tintable) (86), Deep Base (87), Clear Base (88) Tint with Industrial Colorants Only	Pigment Type		Titanium Dioxide
	Volume Solids (mixed as recommended)		70% ± 2.0%
— Special Colours: Contact your retailer.	Coverage per 3.79 L at		23.2 – 29.3 sq. m. (250 – 315 sq. ft.)
	Recommended Film Thickness		5.1 – 6.5 mils
Certifications & Qualifications: VOC Compliant in Canada The products supported by this data sheet contain a maximum of 250 grams per litre VOC / VOS excluding water & exempt solvents. This product is compliant as an Industrial Maintenance Coating.	Recommended	– Wet	5.1 – 6.5 mils
	Film Thickness	– Dry	3.5 – 4.5 mils
Customer Information Centre: 1-800-361-5898, info@benjaminmoore.com , www.benjaminmoore.ca	Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure colour uniformity and minimize the disposal of excess paint.		
	Dry Time @ 25 °C (77 °F) @ 50% RH	– To Touch	1 – 2 Hours
		– To Recoat	8 Hours
		– Full Cure	72 Hours
	*If topcoat 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		148.9 °C (300 °F)
	Viscosity @ 25 °C (77 °F) (mixed as recommended)		65 – 75 KU
	Flash Point		36.6 °C (98 °F) (TT-P-141, Method 4293)
	Gloss/Sheen		Gloss (85 – 95 @ 60°)
	Surface Temperature at application	– Min.	4.4 °C (40 °F)
		– Max.	37.8 °C (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 @ 21 °C (70 °F)		10 Minutes
	Pot Life @ 25 °C (77 °F)		2 Hours
	Weight Per 3.79 L (mixed as recommended)		5 kg (11.0 lbs)
	Storage Temperature	– Min.	4.4 °C (40 °F)
		– Max.	32.2 °C (90 °F)
	Volatile Organic Compounds (VOC)		
	235 Grams / Litre*		
	* Catalyzed		

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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 logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

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 @ 25 °C (77 °F) induction or "sweat-in" time prior to applying the mixed product to the substrate. DTM Mastic Urethane if air or surface temperatures are below 4.4 °C (40 °F) or above 37.8 °C (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 6.35 mm to 12.7 mm (¼" – ½").

TEST DATA	
Flexibility (ASTM D1737)	Pass 6.4 mm (1/4") Mandrel
Dry Heat Resistance	148.6 °C (300 °F)
Wet Heat Resistance	51.7 °C (125 °F)
Adhesion (ASTM D3359)	Pass 5B
Accelerated Weathering (ASTM G53) 1000 Hours 1 coat V150 Primer, 2 coats V570	95% Gloss Retention < 1.5 DE Colour 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.	

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Clean Up

V700 Urethane Reducer.

Environmental Health & Safety Information

Warning

May cause an allergic skin reaction

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

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. Use personal protective equipment as required. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

Response: IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use CO₂, dry chemical, or foam for extinction.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

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.

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.**