



# AROMATIC MOISTURE CURED URETHANE V580

## Features

- 2 hours dry to touch
- Uses moisture in the air to produce a hard cross-linked film
- Quick return to light traffic (8 to 12 hours depending on humidity)
- Suitable for use in USDA inspected facilities

## General Description

This coating is a one-component, high-solids, moisture-cured urethane intended for use on floors exposed to moderate to extreme conditions. It provides excellent abrasion, impact resistance and chemical resistance. Exposure to sunlight will cause yellowing.

## Recommended For

Excellent for use in chemical processing, warehousing, loading docks, food and beverage processing, and other indoor areas requiring a high performance, abrasion resistant finish.

## Limitations

- Apply when air temperatures are between 50 °F (10 °C) and 90 °F (32.2 °C).
- For Interior Use ONLY

Product Information		Technical Data <sup>◇</sup>																			
<b>Colors — Standard:</b> Clear (00)		<b>Clear</b>																			
<b>— Tint Bases:</b> Do Not Tint		Vehicle Type <span style="float:right">Aromatic MCU</span>																			
<b>— Special Colors:</b> Contact your retailer.		Pigment Type <span style="float:right">N/A</span>																			
<b>Certification &amp; Qualifications:</b>  The products supported by this data sheet contain a maximum of 340 grams per liter VOC / VOS (2.84 lbs./gal.) excluding water & exempt solvents. Masters Painters Institute MPI # 31 Meets Performance Spec of TT-C-542E Type II		Volume Solids <span style="float:right">56% ± 1.0%</span>																			
<table border="1"> <thead> <tr> <th>VOC REGION</th> <th>COMPLIANT</th> </tr> </thead> <tbody> <tr><td>FEDERAL</td><td>YES</td></tr> <tr><td>OTC</td><td>YES</td></tr> <tr><td>OTCII</td><td>NO</td></tr> <tr><td>CARB</td><td>NO</td></tr> <tr><td>CARB07</td><td>NO</td></tr> <tr><td>UTAH</td><td>NO</td></tr> <tr><td>AZMC</td><td>YES</td></tr> <tr><td>SCAQMD</td><td>NO</td></tr> </tbody> </table>		VOC REGION	COMPLIANT	FEDERAL	YES	OTC	YES	OTCII	NO	CARB	NO	CARB07	NO	UTAH	NO	AZMC	YES	SCAQMD	NO	Coverage per Gallon at Recommended Film Thickness <span style="float:right">300 – 400 Sq. Ft.</span>	
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<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>		Recommended Film Thickness <span style="float:right">4.0 – 5.3 mils</span> – Wet – Dry <span style="float:right">2.2 – 3.0 mils</span>																			
		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 (25 °C) @ 50% RH <span style="float:right">2 Hours</span> – Tack Free – To Recoat <span style="float:right">16 – 72 Hours</span> – Full Cure <span style="float:right">7 – 10 Days</span>																			
		High humidity and cool temperatures will result in longer dry, recoat and service times.																			
		Dries By <span style="float:right">Chemical Cure</span>																			
		Viscosity <span style="float:right">80 – 90 KU</span>																			
		Flash Point <span style="float:right">73 °F or greater</span> (TT-P-141, Method 4293)																			
		Gloss / Sheen <span style="float:right">80+ @ 60°</span>																			
		Surface Temperature at Application <span style="float:right">50 °F</span> – Min. – Max. <span style="float:right">90 °F</span>																			
		Thin With <span style="float:right">Do Not Thin</span>																			
		Clean Up Thinner <span style="float:right">Corotech® V703 or Xylene</span>																			
		Weight Per Gallon <span style="float:right">8.6 lbs</span>																			
		Storage Temperature <span style="float:right">40 °F</span> – Min. – Max. <span style="float:right">95 °F</span>																			
		<b>Volatile Organic Compounds (VOC)</b>  335 Grams/Liter    2.80 Lbs./Gallon																			

<sup>◇</sup> Reported values are for Clear. Contact retailer for values of other bases or colors.

## Aromatic Moisture Cured Urethane V580

### Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils salts and other contaminants must be removed using Corotech® V600 Oil & Grease Emulsifier.

**Existing Coatings:** Test for compatibility. Clean to remove contaminants. Sand to remove gloss.

**Concrete:** Clean surfaces to be coated to remove grease, dirt and any loose materials. All curing agents, sealers, hardening compounds, form release or other contaminants must be removed. Centrifugal shot blasting is recommended for floor areas exposed to severe environments, however, conscientious acid etching may be substituted. Note that acid etching will NOT remove sealers, curing agents, hardening compounds or form release. Caution should be taken when blasting to not over-profile the concrete. Profile of concrete should meet ICRI CSP 1 or CSP 2.

**Wood:** Clean surfaces to remove dirt, and other foreign contaminants. Sand wood to remove mill glaze, loose wood fibers or existing coatings.

**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 prior to application. Drill mixer at low speed will best accomplish this. DO NOT SHAKE PRODUCT.

**Airless Spray:** Tip range between .009 and .013. Total fluid output pressure at tip should not be less than 2100 psi. Thinning is not recommended.

**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 guns and hoses. Flush all equipment immediately after painting with V703 or Xylene.

**Brush:** Natural Bristle only. / **Roller:** Short Nap mohair with phenolic core.

Apply when temperatures are between 50°F and 90°F, and with humidities between 20% and 90%.

**Additional Notes:** All painted surfaces can be slippery. Where non-skid properties are required, a non-skid additive should be used.

TEST DATA	
Flexibility (ASTM D1737)	Pass 1/8" Mandrel
Dry Heat Resistance	350 °F
Wet Heat Resistance	150 °F
Adhesion (ASTM D3359)	Pass 5B
Abrasion Resistance (ASTM D4060) (CS-17 Wheel, 1000g load, 1000 cycles)	4.9 mg. loss

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

#### SYSTEMS RECOMMENDATIONS

#### SELF PRIMING

Concrete	Use 2-3 coats V580-00 direct to concrete
Wood	Use 2-3 coats V580-00 direct to wood
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

### Clean Up

Clean with Corotech® V703 or Xylene.

### Environmental Health & Safety Information

#### DANGER!

**Harmful in contact with skin**

**Toxic if inhaled**

**Causes skin irritation**

**Causes serious eye irritation**

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

**May cause an allergic skin reaction**

**Suspected of causing cancer**

**Suspected of damaging fertility or the unborn child**

**May cause respiratory irritation**

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

**May be fatal if swallowed and enters airways**

**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. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. 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. Keep cool. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. In case of fire: Use CO2, 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.

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



**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**

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