



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																																																	
<p>Colors — Standard: Clear (00)</p> <p>— Tint Bases: Do Not Tint</p> <p>— Special Colors: Contact your retailer.</p>	<p>Technical Data Clear</p> <table border="1"> <tr> <td>Vehicle Type</td> <td colspan="2">Aromatic MCU</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">N/A</td> </tr> <tr> <td>Volume Solids</td> <td colspan="2">56% ± 1.0%</td> </tr> <tr> <td>Coverage per Gallon at Recommended Film Thickness</td> <td colspan="2">300 – 400 Sq. Ft.</td> </tr> <tr> <td rowspan="2">Recommended Film Thickness</td> <td>– Wet</td> <td>4.0 – 5.3 mils</td> </tr> <tr> <td>– Dry</td> <td>2.2 – 3.0 mils</td> </tr> </table> <p>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.</p> <table border="1"> <tr> <td rowspan="3">Dry Time @ 77 °F (25 °C) @ 50% RH</td> <td>– Tack Free</td> <td>2 Hours</td> </tr> <tr> <td>– To Recoat</td> <td>16 – 72 Hours</td> </tr> <tr> <td>– Full Cure</td> <td>7 – 10 Days</td> </tr> </table> <p>High humidity and cool temperatures will result in longer dry, recoat and service times.</p> <table border="1"> <tr> <td>Dries By</td> <td>Chemical Cure</td> </tr> <tr> <td>Viscosity</td> <td>80 – 90 KU</td> </tr> <tr> <td>Flash Point</td> <td>73°F or greater (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss / Sheen</td> <td>80+ @ 60°</td> </tr> <tr> <td rowspan="2">Surface Temperature at Application</td> <td>– Min.</td> <td>50 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> <tr> <td>Thin With</td> <td>Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td>Corotech® V703 or Xylene</td> </tr> <tr> <td>Weight Per Gallon</td> <td>8.6 lbs</td> </tr> <tr> <td rowspan="2">Storage Temperature</td> <td>– Min.</td> <td>40 °F</td> </tr> <tr> <td>– Max.</td> <td>95 °F</td> </tr> </table> <p style="text-align: center;">Volatile Organic Compounds (VOC)</p> <p style="text-align: center;">335 Grams/Liter 2.80 Lbs./Gallon</p>	Vehicle Type	Aromatic MCU		Pigment Type	N/A		Volume Solids	56% ± 1.0%		Coverage per Gallon at Recommended Film Thickness	300 – 400 Sq. Ft.		Recommended Film Thickness	– Wet	4.0 – 5.3 mils	– Dry	2.2 – 3.0 mils	Dry Time @ 77 °F (25 °C) @ 50% RH	– Tack Free	2 Hours	– To Recoat	16 – 72 Hours	– Full Cure	7 – 10 Days	Dries By	Chemical Cure	Viscosity	80 – 90 KU	Flash Point	73°F or greater (TT-P-141, Method 4293)	Gloss / Sheen	80+ @ 60°	Surface Temperature at Application	– Min.	50 °F	– Max.	90 °F	Thin With	Do Not Thin	Clean Up Thinner	Corotech® V703 or Xylene	Weight Per Gallon	8.6 lbs	Storage Temperature	– Min.	40 °F	– Max.	95 °F
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<p>Certification & Qualifications:</p> <p>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.</p> <p>Masters Painters Institute MPI # 31</p> <p>Meets Performance Spec of TT-C-542E Type II</p> <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																															
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<p>Technical Assistance:</p> <p>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</p>																																																	

◇ 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.

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%.

RECOATING: Use precautions listed above when recoating this product with itself.

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

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.**