



# 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)

## 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 10 °C (50 °F) and 32.2 °C (90 °F).
- For Interior Use ONLY

Product Information																																																																												
<p><b>Colours — Standard:</b> Clear (00)</p> <p><b>— Tint Bases:</b> Do Not Tint</p> <p><b>— Special Colours:</b> Contact your retailer.</p>	<table border="1"> <thead> <tr> <th colspan="2">Technical Data◇</th> <th>Clear</th> </tr> </thead> <tbody> <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 3.79 L at Recommended Film Thickness</td> <td colspan="2">27.9-37.2 sq. m. (300 – 400 sq. ft.)</td> </tr> <tr> <td>Recommended Film Thickness</td> <td>– Wet</td> <td>4.0 - 4.5 mils</td> </tr> <tr> <td></td> <td>– Dry</td> <td>2.2 – 3.0 mils</td> </tr> <tr> <td colspan="3">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.</td> </tr> <tr> <td>Dry Time @ 25 °C (77 °F) @ 50% RH</td> <td>– Tack Free</td> <td>2 Hours</td> </tr> <tr> <td></td> <td>– To Recoat</td> <td>16 – 72 Hours</td> </tr> <tr> <td></td> <td>– Full Cure</td> <td>7 –10 Days</td> </tr> <tr> <td colspan="3">High humidity and cool temperatures will result in longer dry, recoat and service times.</td> </tr> <tr> <td>Dries By</td> <td colspan="2">Chemical Cure</td> </tr> <tr> <td>Viscosity</td> <td colspan="2">80 – 90 KU</td> </tr> <tr> <td>Flash Point</td> <td colspan="2">27.8 °C (73 °F) or greater (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss / Sheen</td> <td colspan="2">80+ units @ 15.6 °C (60 °F)</td> </tr> <tr> <td>Surface Temperature at Application</td> <td>– Min.</td> <td>10 °C (50 °F)</td> </tr> <tr> <td></td> <td>– Max.</td> <td>32.2 °C (90 °F)</td> </tr> <tr> <td>Thin With</td> <td colspan="2">Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td colspan="2">Corotech® V703 or Xylene</td> </tr> <tr> <td>Weight Per 3.79 L</td> <td colspan="2">3.9 kg (8.6 lbs)</td> </tr> <tr> <td>Storage Temperature</td> <td>– Min.</td> <td>4.4 °C (40 °F)</td> </tr> <tr> <td></td> <td>– Max.</td> <td>35 °C (95 °F)</td> </tr> <tr> <td colspan="3" style="text-align: center;"><b>Volatile Organic Compounds (VOC)</b></td> </tr> <tr> <td colspan="3" style="text-align: center;">335 Grams/Litre</td> </tr> </tbody> </table>	Technical Data◇		Clear	Vehicle Type	Aromatic MCU		Pigment Type	N/A		Volume Solids	56% ± 1.0%		Coverage per 3.79 L at Recommended Film Thickness	27.9-37.2 sq. m. (300 – 400 sq. ft.)		Recommended Film Thickness	– Wet	4.0 - 4.5 mils		– Dry	2.2 – 3.0 mils	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	– Tack Free	2 Hours		– To Recoat	16 – 72 Hours		– Full Cure	7 –10 Days	High humidity and cool temperatures will result in longer dry, recoat and service times.			Dries By	Chemical Cure		Viscosity	80 – 90 KU		Flash Point	27.8 °C (73 °F) or greater (TT-P-141, Method 4293)		Gloss / Sheen	80+ units @ 15.6 °C (60 °F)		Surface Temperature at Application	– Min.	10 °C (50 °F)		– Max.	32.2 °C (90 °F)	Thin With	Do Not Thin		Clean Up Thinner	Corotech® V703 or Xylene		Weight Per 3.79 L	3.9 kg (8.6 lbs)		Storage Temperature	– Min.	4.4 °C (40 °F)		– Max.	35 °C (95 °F)	<b>Volatile Organic Compounds (VOC)</b>			335 Grams/Litre		
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<p><b>Certification:</b></p> <p>The products supported by this data sheet contain a maximum of 340 grams per litre VOC / VOS excluding water &amp; exempt solvents. This product is compliant as an Industrial Maintenance Coating. This product is currently approved for use under MPI #31. Meets Performance Spec of TT-C-542E Type II This product has been approved by CFIA (Canadian Food Inspection Agency) for use in Food Processing Facilities.</p>																																																																												
<p><b>Technical Assistance:</b> Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-877-711-6830, or visit <a href="http://www.benjaminmoore.ca">www.benjaminmoore.ca</a></p>																																																																												

◇ Reported values are for Clear. Contact retailer for values of other bases or colours.

## 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 fibres 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 logging onto Health Canada @ [http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked\\_questions-questions\\_posees-eng.php](http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php)

### 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 2,100 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 10 °C (50 °F) and 32.2 °C (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 3.2 mm (1/8") Mandrel
Dry Heat Resistance	176.5 °C (350 °F)
Wet Heat Resistance	65.6 °C (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 vapour

**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 /mist /vapours /spray. 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. Wear protective gloves /protective clothing /eye protection /face protection.

**Response:** If exposed or concerned get medical 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 attention. Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs get medical attention. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. 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 physician. If swallowed immediately call a POISON CENTER or 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, a small amount of clean sand may be added. Stir often during application.

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.**