

WATERBORNE URETHANE GLOSS V540

Features

- Waterborne urethane
- Outstanding UV protection
- Low VOC
- Quick return to service time for minimum down time
- Excellent for floor applications

General Description

This coating produces an extremely durable, chemical-resistant surface that cleans easily with soap and water. Provides outstanding gloss retention and resists scratches and abrasion. This is a two-component product that requires 3.75 parts of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.

Recommended For

Properly Prepared and Primed Steel, Iron, Non-Ferrous, Aluminum, Concrete, and Drywall. Typical market segments include Food and Beverage Processing, Industrial Maintenance, Paper and Pulp Processing, Transportation, Industrial Flooring, General Metal Finishing / Fabrication, Chemical Processing, Commercial Structures, Tank Exteriors and other areas requiring a long life, performance urethane.

Limitations

- Do not apply if air or surface temperatures are below 10 °C (50 °F) or above 35 °C (95 °F), or in relative humidity levels greater than 85%.
- This product is not for immersion service.
- DO NOT APPLY AT MORE THAN 2.0 MILS DFT

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Product Inform	ation		
Colours — Standard:	Technical Data◊	White	
White (01), Clear (00)	Generic Type Waterborne A	crylic Polyurethane	
······································	Pigment Type	Titanium Dioxide	
— Tint Bases:	Volume Solids (mixed as recommended)	47% ± 1.0%	
N/A	Coverage per 3.79 L at	35.6 - 53.2 sq. m.	
	Recommended Film Thickness	(350 - 500 Sq. Ft.)	
Do Not Tint	Recommended - Wet	3.2 - 4.6 mils	
— Special Colours:	Film Thickness — Dry	1.5 - 2.0 mils	
Contact your retailer.	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.		
Certifications & Qualifications:	– To Touch	1 Hour	
VOC compliant in all regulated areas	Dry Time @ 25 °C (77 °F) @ 50% RH	3 Hours	
,	– Full Cure	4 – 7 Days	
The products supported by this data sheet contain a maximum of 100 grams per litre VOC / VOS excluding water & exempt solvents. Qualifies for LEED® v4 Credit	*If top coat is not applied within 72 hours al ensure proper inter-coat adhesion. Maximum al resistance are achieved at full cure; care should damage to the coating during the curing process cool temperatures will result in longer dry, recoat	brasion and chemical d be taken to prevent ss. High humidity and	
Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)	Dries By	Chemical Cure	
CDPH v1 Emission Certified	Dry Heat Resistance	18.6 °C (200 °F)	
Masters Painters Institute MPI # 105, 205 & 256	Viscosity @ 25 °C (77 °F) 95 – 102 K		
Wasters Fainters Institute WF1 # 100, 200 & 200	(mixed as recommended)		
	Flash Point 18.6 °C (200 °F) (TT-P		
Technical Assistance:	-	(70+ Units @ 60°)	
	Surface Temperature — Min.	10 °C (50 °F)	
Available through your local authorized independent dealer.	at application – Max.	32 °C (90 °F)	
For the location of the dealer nearest you, call 1-800-361-5898 or visit www.benjaminmoore.ca	Surface must be dry and at least 5° above the dew point		
	Thin With	Clean Water	
	Clean Up Thinner	Water	
	Mixed Ratio (by volume)	3.75 : 1	
	Induction time @ 21 °C (70 °F)	15 Minutes	
	Pot Life @ 25 °C (77 °F)	4 Hours	
	Weight Per Gallon (mixed as recommended)	4.8 kg (10.5 lbs.)	
	Storage Temperature — Min.	7.2 °C (45 °F)	
	- Max.	35 °C (95 °F)	
	Volatile Organic Compounds 10 Grams / Liter* * Catalyzed	s (VOC)	

Reported values are for White. Contact retailer for values of other bases or colors.

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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 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 contaminates must be removed before coating. After the concrete floor has been prepared and allowed to dry (measuring 10% or less with moisture metre), apply one coat of Corotech® V155 Epoxy Pre-Primer at 55.8 – 73.3 sq. m. (600-800 sq. ft.) per 3.79 L (1.5 mils) following label instructions.

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 and 1or 2 coats of Corotech® V540 Waterborne Urethane. Please contact your Insl-x representative or technical service for recommendations on less severe applications.

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. Corotech® V620 Concrete Etch is recommended. Rinse and neutralize thoroughly and allow to dry. Prime concrete with 1 coat Corotech® V155 Epoxy Pre-Primer followed by 1 coat of Corotech® V400 Polyamide Epoxy and a topcoat of Corotech® V540 Waterborne Urethane.

Galvanized and Non Ferrous Metals: Solvent clean all surfaces. Apply 1 coat of Corotech® V110 Acrylic Metal Primer or Corotech® V175 Waterborne Bonding Primer.

Previously Painted Surface: Can be applied over old thermoset finishes in good condition. Scuff sand to promote better adhesion.

Fibreglass: Can be applied directly to clean, previously unpainted fibreglass. Scuff sand fibreglass to promote better adhesion

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 family by onto Health Canada logging vour https://www.canada.ca/en/health-canada/services/environmental-workplacehealth/environmental-contaminants/lead/lead-information-package-somecommonly-asked-questions-about-lead-human-health.html

Application

Mix ratio is 3.75:1. Separately mix the "A" & "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 946 mL size "B" component to the "A" and thoroughly mix the two together. This product may gel when first mixed. If this occurs, immediately thin mixed product with 10% clean water. After mixing, the usable pot life is approximately 4 hours. At elevated temperatures, pot life will be shortened. Caution: Product must be mechanically mixed. Hand mixing will not blend components properly. Thin with 10% clean water after induction time.

Do not apply Corotech® Waterborne Polyurethane if air or surface temperatures are below 10 °C (50 °F) or above 32 °C (90 °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.

Apply using brush, roller or sprayer. If rolling, use 12.7 mm ($\frac{1}{2}$ ") lambs wool or 6.35 mm to 12.7 mm ($\frac{1}{2}$ ") synthetic roller cover. Keep roller wet. Do not over roll. Clean equipment promptly after use with water.

Note: Coated surfaces may discolour under tires due to plasticizer migration.

Where non-skid characteristics are desired, hand broadcast an appropriate anti-slip aggregate into the wet film then back-roll to encapsulate. Benjamin Moore's Corotech® Anti-Slip Aggregate V630 works well for non-clear coats.

TEST DATA		
Flexibility (ASTM D1737)	Pass 6.4 mm (1/4") Mandrel	
Dry Heat Resistance	93.2 °C (200 °F)	
Wet Heat Resistance	51.7 °C (125 °F)	
Adhesion (ASTM D3359)	Pass 5B	
Accelerated Weathering		
(ASTM G53) 1000 Hours	95% Gloss Retention < 0.25 DE Colour	
1 coat V150 Primer, 2	Change (CMC)	
coats V540		
Salt Fog Resistance		
(ASTM B117) 2000	Rust Breakthrough: 10 Rating	
Hours (Same system as	Rust Area: 0.01%	
above)		
Abrasion Resistance		
(ASTM D4060) Taber	80 mg loss	
(CS-10 Wheel, 1000g	ou my loss	
load, 1000 cycles		

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

SYSTEMS RECOMMENDATIONS		
PRIMERS		
Ferrous Metal (Blasted)	V150 Line, V155-00 or V160 Line	
Ferrous Metal (Marginally Prepared)	V155-00 or V160 Line	
Non-Ferrous Metal	V110 or V175-00	
Concrete	V155-00, V160 Line, or V400-00 Clear or epoxy block filler	
Aged coatings	Use Direct (Check Compatibility) or use V110 Line or V155-00 as a barrier Coat	
COMPATIBLE INTERMEDIATES		
V160 Line or epoxy block filler		
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

Clean up with water.

Environmental Health & Safety Information

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.

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 the 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 KEEP FROM FREEZING FOR PROFESSIONAL USE ONLY

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