

Features

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

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.

WATERBORNE URETHANE GLOSS V540

General Description

This coating produces an extremely durable, chemical-resistant surface with the benefits of low odour and soap and water cleanup. 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.

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

areas requiring a long life, performance drethane.		AT MORE THAN 2.0 I	VIILS DF I
Product Inf	ormation		
Colours — Standard:	Technical Data◊		White-Clear
White (01), Clear (00)	Generic Type	Waterborne	e Acrylic Polyurethane
	Pigment Type		Titanium Dioxide
— Tint Bases:	Volume Solids (mixed	as recommended)	White - 47% ± 1.0% Clear - 39% ± 1.0%
N/A	Coverage per 3.79 L at		
Do Not Tint.	Recommended Film Thickness	White - 35.6 - 53.2 sq. m. (383 - 573 Sq. Ft.) Clear - 29.2 - 39.2 sq. m. (314 - 422 Sq. Ft.)	
— Special Colours:		White: 3.2 – 4.2 mils;	
	Recommended	– Wet	Clear: 3.8 – 5.1 mils
Contact your retailer.	Film Thickness	– Dry	White: 1.5 - 2.0 mils;
Contifications		,	Clear: 1.5 - 2.0 mils
Certification:	Depending on surface tex	ture and porosity. Be	
	amount of paint for the job. This will ensure colour uniformity and		
The products supported by this data sheet contain a maximum of	minimize the disposal of e	<u>'</u>	
100 grams per litre VOC / VOS excluding water & exempt solvents.	Dry Time @ 25 °C (77 °F) @ 50% RH	To TouchTo Recoat	2 Hours 12 Hours
This product is compliant as an Industrial Maintenance Coating.		– To Recoal – Full Cure	4 – 7 Days
Master Painters Institute MPI # 105, 205 & 256	*If toncoat is not applied		
CHPS emission certified	*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.		
Qualifies for LEED® v4			
This product has been approved by CFIA (Canadian Food			
Inspection Agency) for use in Food Processing Facilities.	Dries By	3001 0110 0010 1111001	Chemical Cure
	Dry Heat Resistance		18.6 °C (200 °F)
	Viscosity @ 25 °C (77 (mixed as recommended)	°F)	95 – 102 KU
Technical Assistance:	Flash Point	18.6 °C (200 °F) (T	T-P-141, Method 4293)
	Gloss / Sheen	, , ,	Gloss (70+ @ 60°)
Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you,	Surface Temperature	– Min.	10 °C (50 °F)
call 1-877-711-6830, or visit www.benjaminmoore.ca	at application	– Max.	32 °C (90 °F)
	Surface must be dry and at least 5° above the dew point		
	Thin With		Clean Water
	Clean Up Thinner		Water
	Mixed Ratio (by volum	e)	3.75: 1
	Induction time @ 25 °C	C (77 °F)	15 Minutes
	Pot Life @ 25 °C (77 °	F)	4 Hours
	Weight Per 3.79 L (mix	ed as recommended)	4.8 kg (10.5 lbs)
	Ctorogo Torogo	– Min.	7.2 °C (45 °F)
	Storage Temperature	– Max.	35 °C (95 °F)
	Volatile Organic Compounds (VOC)		
	10 Grams / Litre*		
		* Catalyzed	

 $[\]Diamond$ Reported values are for White-Clear. Contact retailer for values of other bases or colours.

Waterborne Urethane Gloss V540

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 1 or 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 your family by logging onto Health Canada mb/asked_questions-questions-posees-eng.php

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 $(\frac{1}{4})$ 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.

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	95% Gloss Retention < 0.25 DE Colour	
(ASTM G53) 1000 Hours	Change (CMC)	
1 coat V150 Primer, 2		
coats V540		
Salt Fog Resistance	Rust Breakthrough: 10 Rating	
(ASTM B117) 2000	Rust Area: 0.01%	
Hours (Same system as		
above)		
Abrasion Resistance	80 mg loss	
(ASTM D4060) Taber		
(CS-10 Wheel, 1000g		
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		

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, 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 KEEP FROM FREEZING FOR PROFESSIONAL USE ONLY

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