



POLYESTER URETHANE GLOSS V520

Features

- Outstanding UV protection
- Fast dry - 4 hours to touch
- High chemical and abrasion resistance
- Suitable For Use In USDA Inspected Facilities

Recommended For

Properly Prepared and Primed Steel, Iron, Non-Ferrous, Concrete, and Fiberglass. 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.

General Description

Polyester Urethane is a multi-use, two-component product that provides excellent gloss and color retention, as well as superior abrasion, chemical, and solvent resistance. It may be used anywhere a performance urethane is necessary for interior or exterior applications. Excellent flow and leveling. It is ideal as a floor finish for commercial and industrial applications as well as airplane hangars. **This is a two component product that requires 5 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 50 °F (10 °C) or above 100 °F (37.5 °C), or in relative humidity levels greater than 85%.
- This product is not intended for use in immersion service.
- Coated surfaces may discolor under tires due to plasticizer migration

Product Information

Colors — Standard:

Tintable White (86)

— Tint Bases:

Tintable White (86), Deep Base (87), Clear Base (88)

Tint With Industrial Colorants Only

— Special Colors:

Contact your retailer.

Certifications & Qualifications:

The products supported by this data sheet contain a maximum of 340 grams per liter VOC / VOS (2.83 lbs/gal.) excluding water & exempt solvents.
Suitable for Use in USDA Inspected Facilities

VOC REGION	COMPLIANT
FEDERAL	YES
OTC	YES
OTCII	NO
CARB	NO
CARB07	NO
UTAH	NO
AZMC	YES
SCAQMD	NO

Technical Assistance:

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

Technical Data[◇]

Tintable White							
Generic Type	Polyester Urethane						
Pigment Type	Titanium Dioxide						
Volume Solids (mixed as recommended)	61% ± 1.0%						
Coverage per Gallon at Recommended Film Thickness	400 - 450 Sq. Ft						
Recommended Film Thickness	<table border="0"> <tr> <td>– Wet</td> <td>3.6 – 4.0 mils</td> </tr> <tr> <td>– Dry</td> <td>2.1 – 2.4 mils</td> </tr> </table>	– Wet	3.6 – 4.0 mils	– Dry	2.1 – 2.4 mils		
– Wet	3.6 – 4.0 mils						
– Dry	2.1 – 2.4 mils						
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	<table border="0"> <tr> <td>– To Touch</td> <td>4 Hours</td> </tr> <tr> <td>– To Recoat</td> <td>8 Hours</td> </tr> <tr> <td>– Full Cure</td> <td>3 – 5 Days</td> </tr> </table>	– To Touch	4 Hours	– To Recoat	8 Hours	– Full Cure	3 – 5 Days
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– To Recoat	8 Hours						
– Full Cure	3 – 5 Days						
*If top coat 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.							
Dries By	Chemical Cure						
Dry Heat Resistance	200 °F						
Viscosity @ 77 °F (mixed as recommended)	65 – 70 KU						
Flash Point	80°F (TT-P-141, Method 4293)						
Gloss / Sheen	Gloss (85+ @ 60°)						
Surface Temperature at application	<table border="0"> <tr> <td>– Min.</td> <td>50 °F</td> </tr> <tr> <td>– Max.</td> <td>100 °F</td> </tr> </table>	– Min.	50 °F	– Max.	100 °F		
– Min.	50 °F						
– Max.	100 °F						
Surface must be dry and at least 5° above the dew point							
Thin With	Do Not Thin						
Clean Up Thinner	Corotech® V700 Urethane Reducer						
Mixed Ratio (by volume)	5 : 1						
Induction time @ 70 °F (21 °C)	None required						
Pot Life @ 77 °F (25 °C)	5 Hours						
Weight Per Gallon (mixed as recommended)	11.4 lbs						
Storage Temperature	<table border="0"> <tr> <td>– Min.</td> <td>45 °F</td> </tr> <tr> <td>– Max.</td> <td>95 °F</td> </tr> </table>	– Min.	45 °F	– Max.	95 °F		
– Min.	45 °F						
– Max.	95 °F						

Volatile Organic Compounds (VOC)
332 Grams / Liter* 2.77 LBS / Gallon*
* Catalyzed

[◇] Reported values are for Tintable White

Polyester Urethane Gloss V520

Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. Prior to painting any surface, area must be clean, dry and free of all grease, dirt, dust, oil and wax. Clean using Corotech V600 Oil & Grease Emulsifier. Remove all loose and peeling paint by wire brushing, scraping or sanding. Fill holes and cracks and sand smooth. Dull glossy surfaces by sanding. Moderate to heavily rusted areas must be thoroughly cleaned and primed.

Ferrous Metal: New metal surfaces should be primed with V150 Epoxy Primer or V110 Acrylic Metal Primer before applying V520. Apply one or two coats as needed.

Galvanized or Aluminum: Clean oil from new galvanized metal using Corotech® V600 Oil & Grease Emulsifier or Lacquer Thinner using clean rags. Prime new or un-rusted metal with V150 Epoxy Primer, V160 Epoxy Mastic, V110 Acrylic Metal Primer, or V175 Waterborne Bonding Primer.

Plaster and Drywall: Sand surfaces. Prime with a quality acrylic primer.

Concrete Surfaces: Allow new concrete to age for a minimum of 30 days. Acid etch or abrasive blast smooth or glazed concrete floors. Be sure to follow the instructions when mixing and using etching solution. (Protect skin and eyes by wearing rubber gloves and goggles.) Rinse surface thoroughly with clean water and allow to dry. On floor applications, apply 1 coat V155 Epoxy Pre-Primer. Old painted concrete should be sanded. Apply one or two coats of V520 as needed.

Fiberglass: Can be applied directly to clean, previously unpainted fiberglass. Scuff sand fiberglass 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 contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mix the "A" and "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 quart size "B" component to the "A" and thoroughly mix the two together. No induction time required prior to applying the mixed product to the substrate. Do not apply Corotech® Polyester Urethane if air or surface temperatures are below 50 °F or above 100 °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.

This product is formulated to be applied without thinning.

Airless Spray (Preferred Method): Tip range between .013 and .017. Total fluid output pressure at tip should not be less than 2400 psi.

Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

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.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.

Brush: Natural Bristle only.

Roller: Industrial Cover with Phenolic core and a nap size of ¼" to ½".

TEST DATA	
Flexibility (ASTM D1737)	Pass ¼" Mandrel
Dry Heat Resistance	200 °F
Wet Heat Resistance	125 °F
Adhesion (ASTM D3359)	Pass 5B
Accelerated Weathering (ASTM G53) 1000 Hours 1 coat V150 Primer, 2 coats V520	95% Gloss Retention < 0.25 DE Color Change (CMC)
Salt Fog Resistance (ASTM B117) 2000 Hours (Same system as above)	Rust Breakthrough: 10 Rating Rust Area: 0.01%
Abrasion Resistance (ASTM D4060) Taber (CS-10 Wheel, 1000g load, 1000 cycles)	80 mg. loss

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Excellent
Alkalis	Excellent
Solvents	Excellent
Fuel	Excellent
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 Line or V175-00
Concrete	V155-00, V160 Line, V163-01, or V400-00 Clear
Aged coatings	Use Direct (Check Compatibility) or use V110 Line or V155-00 as a barrier Coat
COMPATIBLE INTERMEDIATES	
V160 Line, V163-01	
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

Polyester Urethane Gloss V520

Clean Up

Clean up with Corotech® V700 Urethane Reducer.

Environmental Health & Safety Information

Danger

Causes serious eye irritation

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

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. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. 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.

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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 cool.

Disposal: Dispose of contents/container to an approved waste disposal plant.

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 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.**