Benjamin Moore



Features

- Resistant to hydraulic fluid
- Outstanding UV protection
- High chemical and abrasion resistance
- Suitable for use in USDA inspected facilities
- Excellent anti-graffiti coating

ALIPHATIC ACRYLIC URETHANE GLOSS V500

General Description

Aliphatic Acrylic Urethane is a multi-use, two-component urethane appropriate for use on both metal and masonry. This product provides excellent gloss and color retention when used on exterior surfaces exposed to sunlight and rain, and the highly cross-linked formula provides superior abrasion, chemical, and solvent resistance. Due to these outstanding features, urethanes are often used as the final layer in a multi-layer system on steel or masonry. **This is a two component product that requires 4.2 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, Concrete, and Fiberglass. Ideal for 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 50 °F (10 °C) or above 90 °F (32 °C)
- This product is not for immersion service.
- Coated surfaces may discolor under tires due to plasticizer migration.

	Pro	duct Informa	ation			
Colors — Standard:			Technical Data◊	White		
Clear (00), White (01), Black (80)			Generic Type	Aliphatic Acrylic Urethan		
			Pigment Type	Titanium Dioxid		
— Tint Bases:			Volume Solids (mixed as reco	ommended) 72% ± 1.09		
Tintable White (86), Deep Base (87), Clear Base (88)			Coverage per Gallon at Recommended Film Thicknes	350 – 500 Sq. F		
Tint With Industrial Colorants Only			rtocommonada	– Wet 3.2 – 4.6 mil		
				– Dry 2.3 – 3.3 mil		
— Special Colors: Contact your retailer.				and porosity. Be sure to estimat or the job. This will ensure colo isposal of excess paint.		
				– To Touch 2 Hour		
Certification & Qualifications :		- Dry Time @ 77 °F (25 °C) @ 50% RH	– To Recoat 8 Hour			
Certification & Qualifications .			. , .	– Full Cure 72 Hour		
The products supported by this data	VOC REGION	COMPLIANT	ensure proper inter-coat adhesi	*If top coat is not applied within 72 hours abrade the surface t ensure proper inter-coat adhesion. Maximum abrasion and chemica		
sheet contain a maximum of 250 grams	FEDERAL	YES		resistance are achieved at full cure; care should be taken to prevent		
per liter VOC / VOS (2.09 lbs/gal.) excluding water & exempt solvents.	OTC	YES		damage to the coating during the curing process. High humidity an cool temperatures will result in longer dry, recoat and cure times.		
Masters Painters Institute	OTCI	YES	Dries By Chemical Cure			
MPI # 72, 83, 105 & 205	CARB	YES	Dry Heat Resistance	300 °		
Suitable for Use in USDA Inspected	CARB07	YES	Viscosity @ 77°F (mixed as re	ecommended) 70 ± 5 K		
Facilities Meets Performance Requirements of Mil-C-85285/85286/83445	UTAH	YES	Flash Point	98 °F (TT-P-141, Method 4293		
	AZMC	YES	Gloss/Sheen	Gloss (85+ @ 60		
	SCAQMD	NO	Surface Temperature	<u>– Min. 50 °</u>		
			at application	– Max. 90 °		
Technical Assistance:			Surface must be dry and at le			
			Thin With	Do Not Thi		
Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit <u>www.benjaminmoore.com</u>				Corotech [®] V700 Urethane Reduce		
			Mixed Ratio (by volume)	4.2 :		
			Induction time @ 70 °F (21 °C	,		
			Pot Life @ 77 °F (25 °C)	3 Hour		
			Weight Per Gallon (mixed as recommended)	11.0 lbs		
			Storage Temperature	<u>– Min. 40 °</u>		
			<u> </u>	– Max. 90 °		
			247.5 Grams / Lite	c Compounds (VOC) r* 2.06 LBS / Gallon*		
			A Can be called a construction of the cons	atalyzed		

◊ Reported values are for White.

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 using Corotech® V600 Oil & Grease Emulsifier 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.

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 or V160 Epoxy Mastic and 1or 2 coats of Corotech[®] V500 Aliphatic Acrylic Urethane. Please contact your Corotech[®] 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. 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[®] V500 Aliphatic Acrylic 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. Can also use most epoxy primer and intermediate coatings.

Previously Painted Surface: Can be applied over old thermoset finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. If lifting occurs, Corotech[®] V155 Pre-Primer may be used over all existing coatings as a barrier coat.

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 Informational 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. Allow 15 minutes @ 77 °F induction or "sweat-in" time (@ 77 °F) prior to applying the mixed product to the substrate. Do not apply Corotech[®] Aliphatic Acrylic Urethane if air or surface temperatures are below 50 °F or above 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.

All floor coatings may become slippery when wet. 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.

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): DeVilbis MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

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.

Roller: Industrial Cover with Phenolic core and a nap size of $\frac{1}{2}$ " to $\frac{1}{2}$ ".

TEST DATA		
Flexibility (ASTM D1737)	Pass 1/4" Mandrel	
Dry Heat Resistance	300 °F	
Wet Heat Resistance	125 °F	
Adhesion (ASTM D3359)	Pass 5B	
Accelerated Weathering (ASTM G53) 1000 Hours 1 coat V150 Primer, 2 coats V500	95% Gloss Retention < 1.5 DE Color Change (CMC)	
Salt Fog Resistance (ASTM B117) 400 Hours (Same system as above)	Rust Breakthrough: 10 Rating Rust Area: 0.01%	
Abrasion Resistance (ASTM D4060) Taber (CS-17 Wheel, 1000g load, 1000 cycles)	44 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)	150 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.

Aliphatic Acrylic Urethane Gloss V500

Clean Up

V700 Urethane Reducer.

Environmental Health & Safety Information

Warning

May cause an allergic skin reaction

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

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. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. 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 skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 nonskid characteristics are desired, use an appropriate anti-slip aggregate.

WARNING: Cancer and Reproductive Harmwww.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.