Benjamin Moore



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#### Features

- Durable film offers excellent gloss and color retention on exterior substrates
- Excellent abrasion, chemical, and solvent resistance in industrial applications
- Balance of performance and price in a lower solids urethane
- Good salt fog resistance
  Shop/OEM use only; not OTC compliant

#### **Recommended For**

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, high performance urethane.

# ALIPHATIC ACRYLIC URETHANE V515

#### **General Description**

Aliphatic Acrylic Urethane is a high-performance, twocomponent aliphatic acrylic polyurethane designed for shop/OEM use. Can also be used as a non-sacrificial antigraffiti coating. This is a two component product that requires 3 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 at ambient or surface temperatures below 50 °F (10 °C). Relative humidity should be below 90%.
- This product is not intended for immersion services.
- Coated surfaces may discolor under tires due to plasticizer migration.

Product Inform			
Colors — Standard:	Technical Data◊	Tintable Whi	
Clear (00), Tintable White (86), Black (80)	Generic Type	Aliphatic Acrylic Uretha	
	Pigment Type	Titanium Dioxi	
— Tint Bases:	Volume Solids	55 ± 1.0	
	Coverage per Gallon at		
Tintable White (86), Deep Base (87), Clear Base (88)	Recommended Film Thic	•	
Tint With Industrial Colorants Only	Recommended	– Wet 2.9 – 3.6 m	
	Film Thickness	– Dry 1.6 – 2.0 m	
0		texture and porosity. Be sure	
— Special Colors:	estimate the right amount of paint for the job. This wi ensure color uniformity and minimize the disposal of exces		
Contact your retailer.	paint.	ind minimize the disposal of exce	
		– To Touch 1 Ho	
Certification & Qualifications:	Dry Time @ 77 °F (25 °C) @ 50% RH	– To Recoat 4 Hour	
		–. Full Cure 3 – 5 Da	
VOC compliant in federally regulated areas only	*If top coat is not applied	within 72 hours abrade the surface	
		adhesion. Maximum abrasion a	
The products supported by this data sheet contain a maximum of Clear		nieved at full cure; care should be tak	
460 (3.83 lbs. /gal.) and White 400 grams per liter VOC (3.75 lbs. /gal.)		coating during the curing process. Hi ures will result in longer dry, recoat a	
excluding water and exempt solvents.	cure times.	ures will result in longer dry, recoat a	
	Dries By	Chemical Cu	
Master Painters Institute MPI # 78, 83* (*with anti-skid additive), 105 (SHOP/OEM use) & 205	Dry Heat Resistance	300	
	Viscosity @ 77 °F (mixed	as recommended) 65 – 70 k	
	Flash Point Mix	xed: 80 °F (TT-P-141, Method 429	
	Gloss/Sheen	High Gloss (85+ @ 60	
	Surface Temperature	– Min. 50	
Technical Assistance:	at application	– Max. 90	
	Surface must be dry and	at least 5° above the dew point	
Available through your local authorized independent Benjamin Moore	Thin With	Do Not Th	
retailer. For the location of the retailer nearest you, call 1-866-708-9180	Clean Up Thinner	Urethane Reducer V7	
or visit <u>www.benjaminmoore.com</u>	Mixed Ratio (by volume)	3	
	Induction time @ 77°F (2	5°C) 15 Minut	
	Pot Life @ 77°F (25°C)	5 Hou	
	Weight Per Gallon (mixed		
	· · · · · · · · · · · · · · · · · · ·	– Min. 40	
	Storage Temperature	– Max. 90	
	447 Grams / L	anic Compounds (VOC) iter* 3.3 Lbs. / Gallon* * Catalyzed	

 $\diamond$  Reported values are for Tintable White. Contact your retailer for values of other bases or colors.

# Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils, accumulated salts, and other contaminants must be removed prior to employing specific surface preparation methods. Removal of all contaminants should be completed in accordance with SSPC-SP1 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. For ferrous metal and concrete: see primer section of this document followed by specific primer data sheets for substrate preparation methods, as this product should not be applied directly to these substrates.

Non-ferrous metals, fiberglass, and existing coatings should be solvent cleaned (SSPC-SP1), and abraded to provide sufficient surface profile. Then apply a test patch area to check adhesion and compatibility. The use of a primer may be necessary.

**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" component thoroughly before application; the use of a drill mixer at low speed will best accomplish this task. Add the full contents of the "B" component to the "A" and thoroughly mix the two together. Allow 15 minutes @ 77 °F (25 °C) induction or "sweat-in" time prior to applying the mixed product to the substrate. Do not apply if air or surface temperatures are below 50 °F (10 °C) or above 90 °F (35 °C), or in relative humidity levels greater than 90%, 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.

The dry and recoat times may be reduced by using up to 2 ounces per gallon of Corotech<sup>®</sup> V700 Urethane Reducer per gallon. Usable pot life will be reduced to 2 hours @ 77 °F (25 °C) if accelerator is used.

Airless Spray (Preferred Method): Tip range between 13 and 17 thousandths. 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 or follow local/state guidelines on solvent use. If material begins gelling, immediately flush equipment as product has reached pot life.

Brush: Natural Bristle only.

Roller: Industrial Cover with Phenolic core.

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 1/4" Mandrel	
Dry Heat Resistance	300 °F	
Wet Heat Resistance	125 °F	
Adhesion (ASTM D3359)	Pass 5B	
Accelerated Weathering (ASTM G53)	95% Gloss Retention <0.25 DE Color Change (CMC)	
Abrasion Resistance (ASTM D4060) Taber (CS-10 Wheel, 1000g load 1000 cycles	80 mg loss	
Salt Fog Resistance (ASTM B117) 1000 Hours (same system as above)	Rust Breakthrough – 10 Rating Rust Area – 0.01%	

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

SYSTEMS RECOMMENDATIONS		
PRIMERS		
Ferrous Metal (Blasted)	V110 Line, 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	Use Direct or use V110 Line, V114-01, or V155-00, V160 Line, V163-01, or V400-00 Clear	
Aged coatings	Use Direct (Check Compatibility) or use V110, V155 Line as a barrier Coat	
COMPATIBLE INTERMEDIATES		
V160 Line, V163		
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech <sup>®</sup> Technical Service.		

### Clean Up

Clean up with a Corotech® V700 Urethane Reducer or follow local/state guidelines on solvent use.

# **Environmental Health & Safety Information**

Danger!

Harmful 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 drowsiness or dizziness

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. 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/ vapors/ 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. 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. If experiencing respiratory symptoms: 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.

**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.



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.

Benjamin Moore & Co., 101 Paragon Drive, Montvale, NJ 07645 Tel: 866-708-9180, Fax: 888-248-2143 <u>www.benjaminmoore.com</u> M72 V515 EN 080618 2017, 2018 Benjamin Moore & Co. Benjamin Moore and the triangle "M" symbol are registered trademarks licensed to Benjamin Moore & Co. All other marks are the property of their respective owner. All rights reserved