



RUST-OLEUM® THE MULE

DESCRIPTION AND USES

The MULE is an easy to use, versatile, abrasion resistant coating designed for high traffic areas that are subject to routine cleaning and disinfecting. This Modified Urethane Latex Epoxy (The MULE) can be used for interior or exterior applications on walls, doors, trim, railings and even floors.

PRODUCT FEATURES

- Versatile, abrasion resistant coating for walls, doors, trim and floors
- Highly washable, ultra smooth finish
- Great adhesion on multiple surfaces
- Low odor, water-base formula
- Interior or exterior use
- VOC compliant nationwide

PRODUCTS

FINISHES - GLOSS

1-Gallon	5-Gallon	DESCRIPTION
375645	----	Black
381208	----	Dunes Tan
375661	----	Safety Yellow
375642	----	Silver Gray
375658	----	White

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Original Cleaner Degreaser, commercial detergent or other suitable cleaner. Mold and mildew must be cleaned with a chlorinated cleaner or bleach solution.

PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

ALL SURFACES (cont.): Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application. Bare surfaces must be primed with the appropriate Rust-Oleum primer specified on this technical data sheet.

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.

DRYWALL: Surfaces should be clean, dry, sound and free of dust, dirt, excessive chalky material, grime, grease, oil, wax, mildew, wallpaper, adhesive or any contamination that may interfere with adhesion. If unsure of cleanliness, always wash surface with an appropriate ammoniated cleaning solution or solvent (do not use TSP as a cleaner). Remove any peeling and/or unsound coatings. Bare surfaces need to be primed with Rust-Oleum Universal Acrylic Primer.

METAL: Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove loose rust, scale, and deteriorated previous coatings to obtain a sound surface. All weld spatter should be removed along weld seams, rough welds should be ground smooth, and all sharp edges should be ground to a smooth radius. For maximum adhesion and corrosion protection, we recommend a using Rust-Oleum Universal Acrylic Primer on bare and previously painted surfaces. Abrasive blasted steel will require two coats of primer.

CONCRETE OR MASONRY: New concrete or masonry must cure 30 days before coating. Any concrete surface must be protected from moisture transmission from uncoated areas. Remove all loose, unsound concrete. Bare vertical surfaces need to be primed with Rust-Oleum Universal Acrylic Primer.

CONCRETE BLOCK: Bare vertical surfaces need to be primed with Rust-Oleum Zinsser® Block Filler to a pinhole free surface.

CONCRETE FLOORS: New concrete or masonry must cure 30 days before coating. Remove laitance and create a surface profile by either acid etching with Rust-Oleum 108 Cleaning and Etching Solution, or by grinding. If etching, refer to the 108 Cleaning and Etching Solution's Technical Data Sheet for complete application instructions. Rinse thoroughly and allow to dry. The concrete must be fully dry prior to coating application. After etching, the concrete should have a texture, which resembles fine grit sandpaper. Repeat the process if necessary. Surface sealers and curing agents must be removed by grinding.



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PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

CONCRETE FLOORS (cont.): Vacuum to remove fine dust and debris. The floor should be dry and dust free prior to application. For previously painted floors, existing coatings need to be in sound condition, clean, dull and dry.

UNCOATED, NEW WOOD: Use on all species of pressure-treated lumber, Pine, Fir, Hemfir, Cypress, Cedar, Redwood, Poplar, Hickory and other North American hardwoods. Ideal for weathered wood where hiding signs of aging is desired. New wood should age for a minimum of 6 months before applying The MULE. Bare surfaces need to be primed with Rust-Oleum Universal Acrylic Primer

After cleaning, conduct a splash test to ensure the surface is ready to be coated. Sprinkle several handfuls of water on multiple areas of the surface. If the water absorbs rapidly, the surface is ready to be coated. If the water beads, puddles or is not absorbed, an internal or external barrier exists and must be eliminated (strip/sand) before painting can begin.

PREVIOUSLY PAINTED: Previously painted surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. The MULE is compatible with most coatings, but a test patch is suggested.

APPLICATION

Apply only when the air and surface temperatures are between 50-90°F (10-32°C) and the surface temperature is at least 5°F (3°C) above the dew point. The relative humidity should not be greater than 85%.

The dry times published on page 3 are under conditions of 70-80°F (21-27°C) and a relative humidity of 50%. At lower temperatures, the dry times will be increased and the full development of the coating's physical properties will take longer. Improved air flow will aid the curing process when temperatures are below 50°F or the relative humidity is greater than 80%.

EQUIPMENT RECOMMENDATIONS

(Comparable equipment also suitable)

BRUSH: Use a high quality synthetic bristle brush.

ROLLER: Use a high quality woven roller cover with nap size of 1/4", 3/8", 1/2" or 3/4" depending on how smooth or textured the surface is.

AIRLESS SPRAY

Fluid Pressure	Fluid Tip	Filter Mesh
1,800-2,500 psi	0.013-0.017	100

Caution: Protect surrounding surfaces from over spray. Over spray can be wet or dry depending on height of work, weather, environmental conditions and application equipment. Wet over spray can adhere to unwanted surfaces. Dry over spray may be removed by wiping or washing. Always clean dry over spray from hot surfaces before fusing occurs as surface temperatures can be higher than the air temperature.

PRODUCT APPLICATION (cont.)

THINNING

BRUSH/ROLLER: None

AIRLESS SPRAY: Up to 10% with clean water

CLEAN-UP

Clean hands, tools, spills and splatters with soap and warm water.

PERFORMANCE CHARACTERISTICS

60° GLOSS

METHOD: ASTM D523-14

RESULT: Satin/Eggshell - 20-25 units

Semi-Gloss - 35-55 units

Gloss - 70-80 units

BLOCKING RESISTANCE

METHOD: ASTM D4946-89

RESULT: Light colors 4 hours

Medium to dark colors 8 hours

ADHESION

METHOD: ASTM D3359

RESULT: (Over Universal Acrylic Primer)

Wood - 5A

Cold Rolled Steel - 4A

Aluminum - 4A

SCRUB RESISTANCE

METHOD: ASTM D2486-17

RESULT: Passed 335 scrub cycles

TABER ABRASION

METHOD: ASTM D4060 C17 wheel, 1000 g, 1000 cycles,

RESULT: 56 mg of loss

COEFFICIENT OF FRICTION (Floor Application)

METHOD: ASTM E303

RESULT: Dry 0.87, Wet 0.7

CLEANER/DISINFECTANT

(15 minute dwell time)

	RESULT
Concrobium Broad Spectrum Disinfectant II	ND
Mean Green Anti-Bacterial Multi-Surface Cleaner	ND
Mean Green Pine Power Multi-Surface Cleaner	ND
Krud Kutter Heavy Duty Cleaner & Disinfectant	ND
Moldex Disinfectant (2%)	ND
Clorox Bleach (5%)	ND
Pine Sol (2%)	ND

CLEAN/DISINFECTANT: Chart Key

ND= No Defect

DG= Deglossing

RC= Recovered

RECOMMENDED CLEANERS/DISINFECTANTS

- Concrobium® Broad Spectrum Disinfectant II
- Mean Green® Anti-Bacterial Multi-Surface Cleaner
- Mean Green® Pine Power Multi-Surface Cleaner
- Krud Kutter® Heavy Duty Cleaner and Disinfectant
- Moldex® Disinfectant (2%)

	<div> <div>TECHNICAL DATA</div> <div>CM-13</div> <div>RUST-OLEUM® THE MULE</div> </div>
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PHYSICAL PROPERTIES

		The MULE
Resin Type		Modified Urethane Latex Epoxy
Pigment Type		Varies with color
Solvents		Water, Glycol Ether
Weight	Per Gallon	8.6-10.9 lbs.
	Per Liter	1.0-1.3 kg
Solids	By Weight	30-52%
	By Volume	27-36%
Volatile Organic Compounds		<50 g/L
Recommended Dry Film Thickness (DFT) Per Coat		2-3 mils
Wet Film to Achieve DFT		5-8 mils
Practical Coverage at Recommended DFT (assumes 15% material loss)		150-270 sq. ft./gal.
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Touch	15 minutes
	Handle	45 minutes
	Recoat	2 hours
	Light Foot Traffic	24 hours
	Vehicle Traffic	3 days
	Full Cure	7 days
Flash Point		>200°F (>93°C)
Shelf Life		5 years
Storage		PROTECT FROM FREEZING
Safety Information		For additional information, see SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

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