



MAVSEAL RCU PRODUCT DATA SHEET

NOTE: Please read and review these instructions prior to installation of this product. Other Maverick products may be used with this product. Contact Maverick Technical Support at SALES@MAVTECHSOL.COM or **313-889-2526**.

DESCRIPTION

MavSeal RCU is a two-component, high-gloss, rapid-cure urethane / polyaspartic sealer engineered for industrial and commercial flooring applications demanding fast return-to-service and long-term UV stability. Formulated at 96% solids with a VOC content below 50 g/L, MavSeal RCU delivers a seamless, chemical-resistant finish coat over MavCoat epoxy body coats, decorative flake broadcasts, and quartz aggregate systems. The aliphatic chemistry resists UV-induced yellowing — maintaining color and gloss in applications with direct sunlight or artificial UV exposure. With a 13-minute pot life and 3-hour foot traffic return, MavSeal RCU is purpose-built for projects where downtime is not an option.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR / FINISH
MavSeal RCU — Rapid-Cure Urethane / Polyaspartic	1.5-Gallon Kit (1 gal Part-A / 0.5 gal Part-B) 3-Gallon Kit (2 gal Part-A / 1 gal Part-B)	Clear; pigmented via MavTints color packs
MAVPRIME EP — 100% Solids Epoxy Primer	1.5-Gallon Kit	Clear / Gloss
MavTints — Floor Coating Pigment Packs	16 oz (1 pack per 1.5 mixed gal MavSeal RCU)	Multiple colors available

COVERAGE RATES

PRODUCT NAME	WET FILM THICKNESS	DRY FILM THICKNESS	COVERAGE RATE
MAVPRIME EP — Epoxy Primer	3 – 8 mils	3 – 8 mils	200 – 533 sq. ft./gal.
MavCoat SLE — Body Coat	8 – 16 mils	8 – 16 mils	100 – 200 sq. ft./gal.
MavSeal RCU — Topcoat	16 mils	16 mils	100 sq. ft./gal.

PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	RESULT
Compressive Strength	ASTM C-579	10,900 psi
Tensile Strength	ASTM D-638	5,000 psi
Flexural Strength	ASTM C-580	4,550 psi
Hardness, Shore D	ASTM D-2240	60 – 70
Bond Strength	ASTM D-4541	300 psi
Abrasion Resistance (CS-17 Wheel, 1000 mg Load, 1000 Cycles)	ASTM D-4060	830 mg Loss
Volume Solids	—	96%
VOC	EPA Method 24	<50 g/L
Pot Life @ 77°F	—	13 minutes
Foot Traffic @ 77°F	—	3 hours
Full Service @ 77°F	—	24 hours
Recoat Window	—	Within 24 hours at 70°F
Mix Ratio (A:B by volume)	—	2:1 (Resin : Hardener)
Application Temperature, Ambient	—	50 – 80°F
Application Temperature, Substrate	—	Minimum 5°F above dew point
Shelf Life (unopened, proper storage)	—	6 months

CHEMICAL RESISTANCE

CHEMICAL	RESULT	CHEMICAL	RESULT	CHEMICAL	RESULT
10% Acetic Acid	G	Methyl Ethyl Ketone	G	Betadine	G*
Vinegar	G	Xylene	F	Bleach (Sodium Hypochlorite)	E
10% Citric Acid	G	Ethylene Glycol	G	Urine	E
10% Hydrochloric Acid	G	Isopropyl Alcohol	F	Coffee	E
30% Hydrochloric Acid (Muriatic)	G	Mineral Spirits	E	Cola	E
10% Nitric Acid	G*	Brake Fluid	F	Ketchup	G
50% Phosphoric Acid	F	Transmission Fluid	E	Mustard	G
10% Sulfuric Acid	G	Motor Oil	E	Red Wine	E
37% Sulfuric Acid	F	50:1 Gas/Oil Mixture	E	Hydrogen Peroxide (3%)	E
70% Sulfuric Acid	F	E85 Gasoline	E	Quaternary Ammonia	E
20% Ammonium Nitrate	E	E95 Gasoline	E	Jet Fuel (JP-8)	G
20% Sodium Chloride	E	Unleaded Gasoline	G	Hydraulic Fluid	E
50% Sodium Hydroxide	E	Skydrol	E	Distilled Water	E

KEY: E = Excellent G = Good F = Fair NR = Not Recommended * = Stain is only defect

SURFACE PREPARATION (CONTINUED)

PREVIOUSLY COATED SURFACES

Clean the surface to prevent any contaminants from being spread or redistributed to a greater area being prepared. Thoroughly grind with 30-grit metal diamonds to completely remove any grout or topcoats that are not epoxy-based and to provide the surface profile required for adhesion. Any loose, delaminated, or unsound coating must be fully removed. After mechanical preparation, vacuum and degrease to ensure a contaminant-free bond surface.

SAFETY & TECHNICAL

Refer to the Safety Data Sheet (SDS) before use. Safety precautions must be strictly followed during storage, handling, and application. Personal Protective Equipment (PPE) must be worn at all times. PPE shall include (but is not limited to): chemical-splash safety glasses with side shields, high-quality nitrile gloves, and solvent-resistant coveralls as appropriate for the application environment. For additional technical and safety data, visit: maverickperformancesolutions.com.

TEMPERATURE REQUIREMENTS

PARAMETER	RANGE (°F)	RANGE (°C)
Air Temperature	50° – 80°F	10° – 27°C
Surface Temperature	Min. 5°F above dew point	Min. 2.8°C above dew point
Material Temperature	65° – 80°F	18° – 27°C

* Higher temperatures and humidity will shorten pot life and working time.

SET-UP & MIXING AREA

Place the mixing station as close to the project area as possible. Cover the mix area with plastic, a tarp, or cardboard and securely tape to the floor. Assemble all application tools, safety supplies, PPE, and clean-up materials in the mixing area before beginning. Ensure adequate ventilation is in place before starting application.

TAPE AND TERMINATION POINTS

Apply masking tape to all perimeter areas where the coating system will terminate. Sawcut and key-in all termination points around drains, dock plates, and high-traffic impact zones (see Maverick Drawings / Architectural Details).

PATCHING

Fill cracks, holes, and spalled areas with MavPatch Epoxy Crack Filler or MavRapidPatch. For best results, scrape patch material flush with the surface. After priming, inspect for any areas that require additional patching before applying body coat and topcoat.

JOINTS

Honor all isolation, expansion, and movable joints with MavJoint JF or the appropriate joint material after the coating system is installed. Contraction (sawcut) joints may be filled and coated over; however, the coating system may crack over these joints if the slab experiences excessive shrinkage or movement. See Maverick Drawings / Architectural Details.

APPLICATION EQUIPMENT

Assemble all required application equipment prior to mixing. Equipment includes (but is not limited to):

APPLICATION PROCEDURE (CONTINUED)

STEP 3: MAVSEAL RCU — RAPID-CURE URETHANE / POLYASPARTIC TOPCOAT

Mix ratio is 2 parts Part-A to 1 part Part-B by volume. Do not alter the mix ratio.

1. Pre-mix Part-A at low speed for 1 minute. If pigmenting with MavTints, add one color pack (16 oz) per 1.5 mixed gallons to Part-A and pre-mix for 1 minute.
2. Add Part-B into the Part-A pail and mix for a minimum of two minutes using a mechanical Jiffy-type mixer at low speed. Scrape the sides and bottom of the pail to ensure full incorporation — any unmixed material will not cure.
3. Immediately pour mixed MavSeal RCU onto the floor in a long bead approximately 8–12 inches wide. Do not scrape sides or invert the pail to drain. Material left in the pail generates heat and has a sharply reduced pot life.
4. Wearing spiked shoes, spread evenly at 16 mils (100 sq. ft./gal.) using a high-quality flat or notched EPDM squeegee. Overlap passes to ensure consistent coverage.
5. Back-roll with a non-shed 3/8" nap roller across squeegee passes to minimize application lines and achieve a uniform film. Back-roll lightly — do not over-roll. Excessive rolling may introduce air bubbles into the film.
6. Do not back-roll once the material begins to set. MavSeal RCU reaches foot traffic in 3 hours and full service in 24 hours at 77°F. Lower temperatures extend cure times.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use with acetone or xylene. Do not use alcohol-based solvents. Follow solvent manufacturer's safety instructions. Dispose of all materials in accordance with applicable local, state, and federal regulations. Do not discharge into drains or waterways.

LIMITATIONS

⚠ MavSeal RCU is an aliphatic urethane / polyaspartic and is UV stable — it will not yellow under normal UV exposure. However, prolonged direct exposure to extreme UV environments (e.g., direct outdoor sunlight) is not recommended for this system without UV-rated surface protection. Do not apply at temperatures or thicknesses outside those specified herein. Do not delay in pouring mixed material onto the floor. Do not make partial mixes. Do not invert pails to drain. Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick, magnesite, copper, metal, polyesters, or elastomeric membranes. Moving joints and shrinkage cracks may reflect through the system. Joints designed to move must be honored and not coated over. High humidity conditions will shorten pot life and working time.

SHELF LIFE & STORAGE

6 months from date of manufacture when stored indoors in the original, unopened container at 65°–80°F (18°–27°C) in a dry location with relative humidity below 65%. ⚠ Do not allow materials to freeze.

LIMITED WARRANTY

Maverick warrants this product to be free from defects in material and workmanship that affect performance for a period of one year from the date of purchase. Maverick's sole obligation under this warranty is to replace, at no charge, the quantity of coating Maverick determines has failed to perform as warranted. This is the sole and exclusive remedy for any breach of this warranty. Proof of purchase is required. Labor costs for removal or reapplication are expressly excluded. Warranty is void if Maverick products are mixed with or substituted by non-Maverick materials. Warranty is nontransferable.

Technical Assistance: Information and application support are available by contacting Maverick at **313-889-**