



MAVSEAL HTU 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 HTU is a three-component, high-performance, abrasion-resistant aliphatic urethane sealer engineered for high-traffic industrial and commercial floor systems. Formulated with a proprietary high-wear filler additive, MavSeal HTU delivers exceptional surface durability, non-yellowing UV stability, and near-zero VOC emissions — making it the definitive topcoat choice over MavCoat epoxy body coats in environments where floor longevity and appearance retention are non-negotiable. From manufacturing and warehousing to healthcare and aviation, MavSeal HTU extends floor system service life up to four times longer than standard epoxy finishes while maintaining a consistent professional satin appearance.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR / FINISH
MavSeal HTU — Part A	0.5-Gallon	Clear / Satin
MavSeal HTU — Part B	2.0-Gallon	Clear / Satin
MavSeal HTU — HTU Wear Filler Additive	Included (2.5-Gallon Kit)	—
MavTints Floor Coating Pigment Packs	16-Ounce	Available Colors

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 / MavCoat HB (Body Coat)	8 – 12 mils	8 – 12 mils	133 – 200 sq. ft./gal.
MavSeal HTU (Sealer / Topcoat)	3 – 4 mils	~3.2 mils	~450 sq. ft./gal.

PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	RESULT
Taber Abrasion (CS-17 Wheel, 1000 g Load, 1000 Cycles)	ASTM D4060	20 mg Loss
Coefficient of Friction (Wet DCOF)	ANSI A326.3	0.70
VOC Content	EPA Method 24	16 g/L (0.12 lb./gal.)
Volume Solids	—	92%
Gloss @ 60° Angle	ASTM D523	Satin Finish
Flammability	—	Self-Extinguishing on Concrete
Pot Life @ 77°F	—	60 Minutes
Foot Traffic @ 77°F	—	12 Hours
Full Service @ 77°F	—	48 Hours

All values based on laboratory testing at 70°F under controlled conditions. Field results may vary. Adhesion, compressive, tensile, and flexural strength values are pending third-party ASTM certification — contact Maverick Technical Support for interim data.

CHEMICAL RESISTANCE

CHEMICAL	RESULTS	CHEMICAL	RESULTS	CHEMICAL	RESULTS
10% Acetic Acid	G	Methyl Ethyl Ketone	G	Betadine	G*
Vinegar	G	Xylene	F	Bleach	E
10% Citric Acid	G	Ethylene Glycol	G	Urine	E
10% Hydrochloric Acid	G	Isopropyl Alcohol	F	Coffee	E
30% Hydrochloric Acid	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	KEY E = Excellent G = Good F = Fair NR = Not Recommended * = Stain is only defect	
70% Sulfuric Acid	F	E85 Gasoline	E		
20% Ammonium Nitrate	E	E95 Gasoline	E		
20% Sodium Chloride	E	Unleaded Gasoline	G		
50% Sodium Hydroxide	E	Skydrol	E		

SURFACE PREPARATION

Concrete and coated concrete surfaces must be sound, clean, dry, and free of contaminants including loose coatings, dirt, dust, grease, oil, silicone, and any other materials that may negatively affect adhesion.

MavSeal HTU must not be applied directly to bare concrete — a primer or epoxy body coat is required.

MOISTURE VAPOR BARRIER

A suitable moisture barrier must be in place for all concrete slabs on-grade. Seasonal moisture variations can cause excessive MVT regardless of pre-application test readings. MVT rate must not exceed 3 lbs. per 1,000 sq. ft. per 24 hours (ASTM F1869). Slab RH must not exceed 75% (ASTM F2170). Where moisture levels exceed these thresholds, consult Maverick Technical Support for corrective measures prior to application.

NEW / BARE CONCRETE

Diamond grind or shotblast to a CSP-3 or greater surface profile per SSPC-SP13 / NACE 6 or ICRI Technical Guideline No. 310.2. Concrete must be cured a minimum of 28 days and must meet MVT and RH thresholds above before coating commences.

SURFACE PREPARATION (CONTINUED)

PREVIOUSLY COATED SURFACES

Thoroughly clean the surface to prevent contaminants from being redistributed across the preparation area. Grind with 30-grit metal diamonds to completely remove all non-epoxy grout or topcoat layers and achieve the surface profile required for system adhesion. Confirm all remaining coatings are epoxy-based and tightly bonded prior to proceeding.

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 — including safety glasses with side shields and high-quality nitrile gloves. For additional technical and safety data, visit: maverickperformancesolutions.com

TEMPERATURE

	FAHRENHEIT	CELSIUS
Air	50° – 85°F	10° – 29°C
Surface	50° – 85°F	10° – 29°C
Material	65° – 80°F	18° – 27°C

**Substrate temperature must be a minimum of 5°F above dew point. Elevated temperatures and humidity will shorten pot life and working time.*

SET-UP & MIXING AREA

Position the mixing area as close to the project area as practical. Cover the mix zone with plastic sheeting, a tarp, or cardboard and tape securely to the floor. Stage all application tools, safety supplies, PPE, and clean-up materials before work begins.

TAPE AND TERMINATION POINTS

Apply masking tape to all perimeter areas where the coating system terminates. 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, eroded, and spalled sections with **MavPatch Epoxy** crack filler or a Maverick 100% solids epoxy thickened with fumed silica. Scrape patch material flush with the surface. After priming, inspect for any additional patching needs before applying the body coat.

JOINTS

Honor all isolation, expansion, and movable joints with appropriate joint material after the complete coating system is installed. Contraction (sawcut) joints may be filled and coated over; however, if the slab

experiences excessive shrinkage or movement, the coating system may crack over time (see Maverick Drawings/Architectural Details).

APPLICATION EQUIPMENT

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

- Drill and Jiffy®-type mixing blade
- High quality non-shed 1/4" or 1/8" nap roller covers
- Edge rollers & chip brushes
- Painters' tape
- Duct tape
- Roller pans
- Spiked shoes
- Measuring and mixing containers
- Surface thermometer

APPLICATION PROCEDURE

MAVPRIME EP — EPOXY PRIMER

Mix ratio: 2 Parts Part-A to 1 Part Part-B by volume.

1. Pre-mix Part-A at low speed for 1 minute. If pigmenting the primer, add the appropriate **MavTint** to Part-A and pre-mix for 1 minute.
2. Add Part-B and mix for 3 minutes until fully uniform. Do not mix more material than can be applied in 10–15 minutes — material will stiffen or tack-up.
3. Immediately pour mixed **MAVPRIME EP** onto the floor in a long bead approximately 8–12 inches wide.
4. Wearing spiked shoes, spread evenly at 3–8 mils WFT by pushing a flat squeegee or metal spring blade along the bead. Overlap passes to fill all concrete pinholes. A tight, thin coat with no back-roll minimizes outgassing bubbles.
5. If back-rolling, use a non-shed 3/8" roller and back-roll evenly across squeegee passes to minimize application lines and maintain a consistent film thickness.
6. Allow **MAVPRIME EP** to cure per its data sheet before applying the body coat. If the body coat is not applied within 24 hours, degloss the primer surface with sandpaper, diamonds, or a Diamabrush before proceeding.

APPLICATION PROCEDURE CONTINUED

MAVCOAT SLE / MAVCOAT HB — BODY COAT (100% SOLIDS EPOXY)

Mix ratio: 2 Parts Part-A to 1 Part Part-B by volume. Refer to the applicable MavCoat SLE or MavCoat HB data sheet for complete mixing ratios and application instructions. Apply MavSeal HTU within 24 hours of body coat installation. If 24 hours has elapsed, degloss the body coat surface before proceeding.

MAVSEAL HTU — ALIPHATIC URETHANE SEALER (TOPCOAT)

Three-component system: 0.5-Gallon Part A + 2.0-Gallon Part B + HTU Wear Filler Additive.

1. If using a pigment, blend **MavTint** into Part B thoroughly before adding Part A.
2. Add Part A to Part B and mix with a Jiffy®-type mixer at medium speed for approximately 2 minutes until fully blended.
3. Add the **HTU Wear Filler Additive** and continue mixing for 2 additional minutes until the filler is uniformly dispersed. Do not over-mix.
4. Apply **MavSeal HTU** using a dip-and-roll method directly from a roller pan. Do *not* use squeegee application. Maintain filler in suspension by stirring pan contents with the roller on each dip.
5. Apply at 3–4 mils WFT (maximum) using a non-shed 1/4" or 1/8" nap roller. Exceeding 4 mils may cause foaming.
6. Immediately cross-roll at a uniform 90° angle to the initial pass to minimize lap lines and produce a consistent satin finish.
7. **Recoat window:** Apply a second coat within 24 hours of the first coat. If 24 hours has elapsed, lightly sand the surface and wipe with a 50:50 mixture of water and isopropanol; allow to flash fully before reapplication.

CLEAN UP & DISPOSAL

Clean all mixing and application equipment immediately after use with acetone or xylene. Do not use alcohol. Follow all applicable local, state, and federal regulations when disposing of materials and containers.

LIMITATIONS

⚠ MavSeal HTU is an aliphatic urethane — it is UV-stable and will not yellow under sunlight or artificial UV exposure. Do not apply at temperatures or film thicknesses outside those specified in this guide. Do not delay pouring mixed material. Do not make partial mixes. Do not invert pails to drain. Not designed for exterior immersion or standing water environments; floors must be sloped to drain. Do not apply directly to bare concrete — a primer and epoxy body coat are required. Verify suitability for your specific chemical environment before full-scale application. Moving joints and shrinkage cracks may telegraph through the coating. Vehicles must not be parked on the coating within 36 hours of installation. For industrial and commercial use only — installation by trained personnel.

SHELF LIFE & STORAGE

12 months from date of manufacture when stored indoors in original, unopened containers 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 that affect its performance for a period of one year from date of purchase. **Maverick** will replace at no charge the quantity of coating determined to have failed to perform — this is the sole and exclusive remedy for any breach of this warranty. Proof of purchase is required. Labor costs are expressly excluded. Warranty is void if Maverick products are mixed with or used in conjunction with non-Maverick substitute materials. Warranty is nontransferable.

TECHNICAL ASSISTANCE



Information is available by calling **Maverick**

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