



MAVCOAT HPE 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

MavCoat HPE is a two-component, 100% solids, high-performance epoxy coating engineered for commercial and industrial floors where durability, chemical resistance, and hygiene are non-negotiable. Applied as a primer, base coat, or topcoat, this system cures to a hard, seamless, high-gloss surface that holds up under heavy foot traffic, forklift operations, and chemical spill exposure. When combined with MavTints, broadcast quartz, or decorative flakes, MavCoat HPE delivers a monolithic finish that is as functional as it is professional.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR / FINISH
MavCoat HPE — 100% Solids High-Performance Epoxy, Part A	2-Gallon	Clear or Pigmented / Gloss
MavCoat HPE — 100% Solids High-Performance Epoxy, Part B	1-Gallon	Clear / Gloss
MAVPRIME EP — 100% Solids Epoxy Primer, Part A	2-Gallon	Clear / Gloss
MAVPRIME EP — 100% Solids Epoxy Primer, Part B	1-Gallon	Clear / Gloss
MavTints — Floor Coating Pigment Packs	16-Ounce	Multiple Colors Available

One 16 oz MavTint pack pigments 3 mixed gallons of MavCoat HPE. For white, light gray, and safety yellow, use 2 packs per 3-gallon mix for full hide. MavCoat HPE is also available in a 3-Gallon kit (2:1 Part A:B) and a 15-Gallon kit for high-volume applications.

COVERAGE RATES

PRODUCT NAME	WET FILM THICKNESS	DRY FILM THICKNESS	COVERAGE RATE
MAVPRIME EP — Primer Coat	3 – 8 mils	3 – 8 mils	175 – 533 sq. ft./gal.
MavCoat HPE — Base/Topcoat	8 – 16 mils	8 – 16 mils	100 – 200 sq. ft./gal.

PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	RESULT
Compressive Strength	ASTM C-579	8,200 psi
Tensile Strength	ASTM D-638	1,650 psi
Flexural Strength	ASTM C-580	3,600 psi
Hardness, Shore D	ASTM D-2240	85 – 90
Adhesion / Bond Strength to Concrete	ASTM D-4541	425 psi (100% Concrete Failure)
Abrasion Resistance (CS-17 Wheel, 1000 g load, 1000 cycles)	ASTM D-4060	80 mg Loss
Volume Solids	—	100%
VOC Content	EPA Method 24	0 g/L (Zero VOC)
Pot Life @ 77°F	—	25 minutes
Foot Traffic @ 77°F	—	12 – 24 hours
Return to Service @ 77°F	—	Light: 24 hours / Full: 48 – 72 hours
Recoat Window @ 70°F	—	Within 24 hours
Mix Ratio (A:B by volume)	—	2 Parts A : 1 Part B
Shelf Life	—	1 year from date of manufacture
Storage Temperature	—	65 – 80°F, dry area
Application Temperature, Ambient	—	50 – 90°F
Application Temperature, Substrate	—	Minimum 5°F above dew point

Data reflects typical results from laboratory testing under controlled conditions. Variations may result. Test methods modified where applicable.

CHEMICAL RESISTANCE

CHEMICAL	RESULT	CHEMICAL	RESULT	CHEMICAL	RESULT
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 all contaminants — including loose coatings, dirt, dust, grease, oil, curing compounds, sealers, and other materials that may negatively affect

SURFACE PREPARATION (CONTINUED)

MOISTURE VAPOR BARRIER

A suitable moisture vapor barrier must be in place for all concrete slabs on-grade. Seasonal ground moisture variations can drive MVT beyond safe limits even if pre-application readings appear acceptable. MVT must not exceed 3 lbs per 1,000 sq. ft. per 24 hours (ASTM F1869). Relative humidity of the slab must not exceed 75% (ASTM F2170). Where moisture conditions exceed these thresholds, contact Maverick Technical Support before proceeding.

NEW / BARE CONCRETE

Diamond grind or shotblast to a minimum CSP-3 surface profile (ICRI Technical Guideline #03732). New concrete must cure a minimum of 28 days and must meet MVT and RH thresholds above. All laitance, weak surface layers, and contamination must be mechanically removed prior to coating.

PREVIOUSLY COATED SURFACES

Clean surface to prevent contaminant redistribution. Grind with 30-grit metal diamonds to fully remove non-epoxy topcoats and achieve required surface profile. Any remaining coating must be sound, well-bonded, and verified compatible with MavCoat HPE. On porous surfaces, apply primer and coatings while substrate temperature is dropping to reduce outgassing. Double-priming fills pores and significantly reduces bubble formation.

SAFETY & TECHNICAL

Refer to the SDS before use. PPE must be worn at all times: safety glasses with side shields and high-quality nitrile gloves. Visit maverickperformancesolutions.com or call **313-889-2526** for safety data.

APPLICATION TEMPERATURE RANGES

	AIR	SURFACE	MATERIAL
°F Range	60° – 85°F	60° – 85°F	60° – 85°F
°C Range	16° – 29°C	16° – 29°C	16° – 29°C

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

SET-UP & MIXING AREA

Position the mixing station as close to the project area as possible. Cover with plastic or cardboard and tape to floor. Assemble all tools, PPE, and clean-up supplies before starting.

TAPE AND TERMINATION POINTS

Apply masking tape to all perimeter termination areas. Sawcut and key in termination points around drains, dock plates, and high-traffic impact zones per Maverick architectural details.

PATCHING

Fill cracks, holes, and spalled areas with MavPatch Epoxy or MavRapidPatch before priming. Scrape flush with surrounding surface. After priming, inspect and re-patch any remaining voids before topcoat.

JOINTS

Honor all isolation, expansion, and movable joints with MavJoint JF after coating installation. Contraction (sawcut) joints may be coated over but may reflect through the system under excessive slab movement. Refer to Maverick architectural details.

APPLICATION EQUIPMENT

- Drill and Jiffy®-type mixing blade
- High-quality non-shed 3/8" nap roller covers
- Edge rollers and chip brushes
- Painters' tape
- Duct tape
- High-quality flat and notched EPDM squeegees
- Flat metal spring blade squeegee
- Spiked shoes
- Roller pans
- Measuring and mixing containers

APPLICATION PROCEDURE — MAVPRIME EP PRIMER

MAVPRIME EP mix ratio is 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 one 16 oz MavTint to Part-A and continue mixing for

APPLICATION PROCEDURE (CONTINUED) — MAVCOAT HPE TOPCOAT

MavCoat HPE mix ratio is 2 Parts Part-A to 1 Part Part-B by volume.

1. Pre-mix Part-A at low speed for 1 minute. If pigmenting, add one 16 oz MavTint per 3-gallon mix to Part-A and mix for 1 minute. For white, light gray, and safety yellow, use 2 MavTint packs per 3-gallon mix for full hide.
2. Pour Part-B into the Part-A pail and mix for a minimum of 2 minutes using a mechanical jiffy-type mixer at low speed. Scrape the sides and bottom of the pail — any unmixed material will not cure. Do not mix more material than can be applied within the pot life window.
3. Immediately pour mixed MavCoat HPE onto the floor in a long bead approximately 8 – 12 inches wide. Move quickly — material left in the pail generates heat and shortens pot life.
4. Wearing spiked shoes, spread evenly at the specified film thickness using a flat squeegee or notched EPDM squeegee. Overlap passes to ensure consistent coverage and no skips.
5. Back-roll lightly with a non-shed 3/8" roller to minimize application lines. Do not over-roll — excessive rolling introduces micro-bubbles into the film. Do not back-roll after material begins to tack up.
6. For broadcast systems (aggregate, quartz, or flake), broadcast dry material into the wet resin immediately after squeegee application. Apply to refusal for maximum durability and appearance. Allow to cure fully, remove all excess broadcast material by scraping and vacuuming, then apply the seal coat.
7. When applying as a second coat, ensure the first coat is tack-free (approximately 10 hours at 70°F) and the recoat window has not been exceeded (within 24 hours at 70°F). Apply the second coat using the same procedure.

CLEAN UP & DISPOSAL

Clean all mixing and application equipment immediately after use with acetone or xylene. Do not use alcohol. Follow all solvent manufacturer safety instructions. Dispose of all materials in compliance with local, state, and federal regulations.

LIMITATIONS

⚠ MavCoat HPE is an aromatic epoxy and may amber or yellow over time with UV exposure. An aliphatic topcoat is required where long-term color stability is a priority. Do not apply outside the specified temperature or film thickness ranges. Do not delay 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, nonporous brick, magnesite, copper, metal, polyesters, or elastomeric membranes. Moving joints and shrinkage cracks may telegraph through the finished system if not properly honored. Tire marking from rubber-wheeled equipment may occur on standard epoxy systems.

SHELF LIFE & STORAGE

12 months from date of manufacture when stored indoors in the original, unopened container at 65°F – 80°F (18°C – 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 (1) year from date of purchase. Maverick will replace, at no charge, the quantity of product determined to have failed to perform as the sole and exclusive remedy for any breach of this warranty. Proof of purchase is required. Labor costs for application are excluded. Warranty is void if Maverick products are mixed with or used in conjunction with non-Maverick materials. Warranty is nontransferable.

TECHNICAL ASSISTANCE



Information is available by calling Maverick at **313-889-2526** or emailing **sales@mavtechsol.com**. Visit us at **maverickperformancesolutions.com** for full technical documentation, SDS sheets, and application guides.



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