



MAVCOAT OPE 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 OPE is a thixotropic, two-component, 100% solids high-performance epoxy floor coating engineered to deliver a light-diffusing orange peel texture with a semi-gloss, seamless, monolithic surface that is hard and durable. Installed as a decorative topcoat over MavCoat epoxy base coats or broadcast MavTop floor systems, MavCoat OPE cures to a distinctive orange peel, semi-gloss finish — resistant to chemical attack and heavy traffic. MavCoat OPE also performs as a vertical primer under MavCoat or MavClad integral cove bases.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR / FINISH
MAVPRIME EP — 100% Solids Epoxy Primer	1.5-Gallon Kit	Clear / Gloss
MavCoat OPE — Orange Peel Finish Epoxy, Part A	2-Gallon	Pigmented w/ color pack / Semi-Gloss
MavCoat OPE — Orange Peel Finish Epoxy, Part B	1-Gallon	Clear / Semi-Gloss
MavTints — Floor Coating Pigment Packs	16-Ounce	Full color range available

1 MavTint pigments 3 mixed gallons. White, light gray, tan, safety yellow: use 2 packs per 3 mixed gallons for full opacity.

COVERAGE RATES

PRODUCT NAME	WET FILM THICKNESS	DRY FILM THICKNESS	COVERAGE RATE
MAVPRIME EP — 100% Solids Epoxy Primer	3 – 8 mils	3 – 8 mils	200 – 533 sq. ft./gal.
MavCoat OPE — Orange Peel Finish Epoxy	8 mils	8 mils	~200 sq. ft./gal.

Theoretical coverage at stated film thickness. Actual coverage varies. 100% solids — WFT = DFT.

PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	RESULT
Adhesion to Concrete	ASTM D7234	> 400 psi (100% Concrete Failure)
Coefficient of Friction (Wet DCOF)	ANSI A326.3	≥ 0.42
Compressive Strength	ASTM C-579	9,200 psi
Tensile Strength	ASTM D-638	1,650 psi
Flexural Strength	ASTM C-580	3,600 psi
Elongation	ASTM D2370	3 – 5%
Flammability	ASTM D790	Self-Extinguishing on Concrete
Hardness, Shore D (24 hr / 5 days)	ASTM D2240	85 – 90
Gloss @ 60° Angle	ASTM D523	Semi-Gloss (50 – 70 GU)
Taber Abrasion (CS-17 Wheel, 1000 g, 1000 cycles)	ASTM D4060	80 mg loss
Bond Strength	ASTM D-4541	425 psi
VOC	EPA Method 24	Zero VOC (< 5 g/L)
Volume Solids	—	100%

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	G*	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		
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 such as loose coatings, dirt, dust, grease, oil, silicone, and other materials that may negatively affect adhesion.

MOISTURE VAPOR BARRIER

A suitable moisture barrier must be in place for concrete slabs on-grade. MVT rate must not exceed three pounds per 1,000 square feet per 24 hours (ASTM F1869). The relative humidity (RH) of the slab must not exceed 75% (ASTM F2170). If a moisture situation exceeds these thresholds, consult a Maverick representative regarding MavCoat MVB Moisture Vapor Barrier Primer.

NEW / BARE CONCRETE

Diamond grind or shot blast to CSP-3 or greater (SSPC-SP13 / NACE 6 or ICRI Technical Guideline No. 310.2). New concrete must cure a minimum of 28 days and meet the MVT and RH thresholds above.

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

SURFACE PREPARATION (CONTINUED)

PREVIOUSLY COATED SURFACES

Clean the surface to prevent contaminants from spreading. Grind with 30-grit metal diamonds to remove non-compatible grout or topcoats and achieve the required profile. Remove all delaminated, blistered, or soft areas and repair the underlying concrete.

SAFETY & TECHNICAL

Refer to the SDS before use. Safety precautions must be strictly followed during storage, handling, and use. PPE required at all times: safety glasses with side shields and high-quality nitrile gloves. For additional technical and safety data, visit: maverickperformancesolutions.com

TEMPERATURE

AIR	SURFACE	MATERIAL
60° – 85°F (16° – 29°C)	60° – 85°F (16° – 29°C)	60° – 85°F (16° – 29°C)

**Higher temperatures and humidity shorten pot life and working time. Apply minimum 5°F above dew point.*

SET-UP & MIXING AREA

Place the mixing area as close to the project area as possible. Cover with plastic or cardboard, secured with tape. Assemble all tools, safety supplies, PPE, and clean-up materials before starting.

TAPE AND TERMINATION POINTS

Apply masking tape to all perimeter areas where the coating terminates. Sawcut and key-in termination points around drains, dock plates, and high-traffic areas. Refer to Maverick Architectural Details.

PATCHING

Patch cracks, holes, and eroded areas with MavPatch Epoxy Crack Filler or a Maverick 100% solids epoxy thickened with fumed silica. Scrape flush with the surface. After priming, verify no additional patching is required.

JOINTS

Honor all isolation, expansion, and movable joints with MavJoint JF after coating installation. Contraction (sawcut) joints may be filled and coated over; the coating may crack if the slab experiences excessive shrinkage or movement. Refer to Maverick Architectural Details.

APPLICATION EQUIPMENT

Assemble all required equipment prior to beginning. Equipment includes — but is not limited to:

- 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

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, add one MavTint to Part-A and pre-mix 1 minute.
2. Add Part-B; mix 3 minutes until uniform. Do not mix more than can be applied in 10 – 15 minutes.
3. Immediately pour mixed primer on the floor in a bead approximately 8 – 12 inches wide.
4. Wearing spiked shoes, spread at 3 – 8 mils with a flat squeegee or spring blade. Overlap passes to fill pinholes. A tight, thin coat with no back-roll minimizes outgassing.
5. If back-rolling, use a non-shed 3/8" roller to minimize application lines.
6. After MAVPRIME EP cures, proceed to MavCoat OPE. If more than 24 hours have elapsed, degloss with sandpaper or diamonds

APPLICATION PROCEDURE CONTINUED

MAVCOAT OPE

Mix ratio: 2 Parts Part-A to 1 Part Part-B by volume. Pigment on-site with MavTints. Installs as decorative topcoat over cured MavCoat epoxy or broadcast MavTop floor systems; also functions as vertical primer under MavCoat or MavClad cove bases.

1. Pre-mix Part-A at low speed 1 minute. If pigmenting, add one MavTint and pre-mix 1 minute. White/light gray/tan/safety yellow: use 2 color packs per 3 mixed gallons.
2. Pour Part-B into Part-A pail. Mix 2 minutes at low speed. Scrape sides and bottom — unmixed residue will not cure. Do not mix more than can be applied in 25 minutes.
3. **Topcoat timing:** Apply within 24 hours of base coat. If elapsed, sand with 100-grit pads, wipe with 50:50 water/isopropanol, and allow to flash before proceeding.
4. Immediately pour mixed material on the floor. Do not scrape sides or invert the pail — material in the pail generates heat and shortens pot life.
5. Wearing spiked shoes, spread at 8 mils with a squeegee. Overlap passes for consistent coverage.
6. Back-roll lightly with a non-shed 3/8" roller. **DO NOT OVER-ROLL** — excessive rolling introduces air bubbles and destroys the orange peel texture.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately with acetone or xylene — do not use alcohol. Follow solvent manufacturer's safety instructions. Dispose of waste in compliance with local, state, and federal regulations. Reference SDS for disposal classification.

LIMITATIONS

- **⚠** System is not aliphatic and may yellow over time. Seal with MavSeal UPA or MavSeal UHD in UV-exposed environments.
- Do not apply outside stated temperature or thickness specifications.
- Do not delay pouring — pot life is 25 minutes at 77°F. Higher temps shorten working time. Do not make partial mixes. Do not invert pails to drain.
- Floors must slope to drain. Ponded water or standing chemicals degrade performance. Not designed for exterior use or sustained immersion.
- Joint and crack telegraphing may occur. Honor all isolation and expansion joints. Tire marking may occur without a MavSeal topcoat.

SHELF LIFE & STORAGE

12 months from date of manufacture in sealed, unopened containers. Store between 65°F and 80°F in a dry location with relative humidity below 65%. **⚠ Do not freeze.** Protect from direct sunlight.

LIMITED WARRANTY

Maverick Performance Solutions warrants MavCoat OPE to be free from defects in material and workmanship. Sole obligation is limited, at Maverick's option, to replacement of non-conforming product or credit to the invoiced amount. Claims must be submitted in writing within five (5) days of discovery, no later than one (1) year from delivery or shelf life expiration. No other warranties, express or implied, including merchantability or fitness for a particular purpose, shall apply. Maverick shall not be liable for consequential or incidental damages.



Technical information is available by calling Maverick Performance Solutions at **313-889-2526**.



MAVERICK
PERFORMANCE SOLUTIONS

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PRODUCT DATA SHEET:
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Information and technical data in this Product Data Sheet are based on tests believed to be reliable. In practice, differences in materials, substrates, storage, handling, and other factors outside of Maverick's control are such that Maverick assumes no liability for such information, advice, recommendations, or instructions. The installer is responsible for