

PRODUCT DESCRIPTION

MavCrete UM is a heavy-duty seamless flooring system typically installed at 1/4" – 3/8" in thickness. MavCrete UM is extremely tough and withstands thermal shock, impact, abrasion, and chemical exposure. MavCrete UM is formulated with an anti-microbial additive to be resistant to Fungi Growth per ASTM G-21.

FEATURES & BENEFITS

- Seamless, hygienic finish; no grout joints
- Impact & abrasion resistant surface
- Low odor, fast installation, fast cure
- Excellent corrosion & chemical resistance
- High temperature resistant to 250°F
- Thermal shock resistant; steam cleanable
- Anti-slip surface, meets ADA recommendations
- Resistant to moisture vapor transmission (MVT)
- Resistant to fungi growth per ASTM G-21

RECOMMENDED USES

- Meat, Poultry and Seafood Plants
- Dairy Plants
- Beverage and Bottling Facilities
- Chemical process Facilities
- Pharmaceutical Facilities
- Wet Processing & Packaging areas
- Commercial Kitchens
- Breweries and Wineries

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	COVERAGE
MavCrete UM Polyurethane Concrete System	1 Unit (A+B+Agg+Pigment)	Multiple Colors	22 sqft/unit @ 1/4"

Available Colors: Red, Dark Red, Gray, Dark Gray, Tan, Green, Blue, Light Blue, Safety Yellow. Part A and B liquids packaged in 1/2 gallon jugs, 5 gallon pails and 250 gallon totes.

TECHNICAL DATA

PHYSICAL DATA	VALUE	INSTALLATION DATA	VALUE
Generic Description	Polyurethane Concrete Flooring	Application Temp, Ambient	40–85°F
Typical Application	1/4" Trowel Applied Monolithic Floor	Application Temp, Material	50–80°F
Mix Ratio	1A : 1B + Aggregate + Pigment	Shelf Life	6 months
VOC Content	5 g/L	Pot Life @ 77°F	15 minutes
Coverage	22 sqft/unit @ 1/4" finished floor	Light Traffic @ 77°F	6 hours
		Full Service @ 77°F	24 hours

PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Compressive Strength	ASTM C-579	7,800 psi
Tensile Strength	ASTM C-307	975 psi
Flexural Strength	ASTM C-580	2,100 psi
Bond Strength	ASTM D-4541	100% Concrete Failure
Impact Strength	ASTM D-4226	>160 in-lb.
VOC Content	—	5 g/L
Resistance to Fungi Growth	ASTM G-21	Passes, Rating of 1

The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.

IMPORTANT INFORMATION

MavCrete UM is not color stable; expect color change over time. MavCrete flooring should not be installed on wet concrete. Floors should be sloped to drain to prevent standing water or chemicals. Spills should be removed as soon as possible to prevent a slipping hazard. Confirm product performance in specific chemical environment prior to use. Follow detailed instructions in the "MavCrete Application Guide." Always use protective clothing consistent with OSHA regulations during use. Refer to Safety Data Sheet for detailed safety precautions. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

Concrete: Apply only to properly prepared clean, dry, and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases, or any other contaminants.

- New concrete should ideally be cured for a minimum of 14 days to reduce possible shrinkage cracking. MavCrete can be installed after 7 days or when concrete reaches a minimum 3,500 psi compressive strength, however early curing movement, shrinkage or cracking may reflect through the final flooring.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers including broom finish surface.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-5 or greater meeting ICRI standard guideline #03732, producing a profile equal to 40-grit sandpaper or coarser.
- All concrete surface irregularities, cracks, expansion joints, control joints and terminations should be properly addressed and prepared prior to application. Moving joints and cracks will reflect through the final installed MavCrete flooring.

APPLICATION PROCEDURE

IMPORTANT – Follow the detailed application instructions in the “MavCrete Application Guide” and the safety instructions listed on the product Safety Data Sheets (SDS). The following installation summary is for reference only and should not be relied upon as all inclusive. MavCrete systems should only be installed by trained persons experienced in polyurethane concrete flooring applications.

1. To prevent lifting or delamination, keyways (minimum 5/16” wide x 5/16” deep) must be cut at all terminations, joints, columns, doorways, and drains.
2. Clean sand and dust from prepared concrete where the floor is to be installed.
3. Option: Use MavCove CB Cove Base material to install a cove and/or base as required.
4. Use a proper mixer and paddle to ensure a complete mix. Maverick recommends the use of a MAN-U-FAB M-61 (1 HP) mixer with a 10 gallon pail and TR4-10 mixing arm.
5. With the mixer running, pour 1/2 gallon Part A into the pail.
6. Add 1 Powder Pigment to Part A and mix about 15 seconds.
7. Add 1/2 gallon Part B and mix another 15 seconds.
8. Gradually add all contents of a MavCrete UM Filler aggregate into the liquid mixture and blend thoroughly until all particles are wetted out, normally about two minutes.
9. Immediately after mixing (within 3 minutes), spread the mixed MavCrete UM onto the floor at a thickness slightly greater than the desired finish, using a screed box or hand trowel.
10. Trowel the surface lightly, using a steel finish trowel to smooth the surface. Finish trowel strokes should all be in the same direction. Do not overwork the mortar. Trowel to a finished thickness of 1/4” to 3/8”.
11. Immediately roll the surface lightly in no more than two passes with a mohair roller. Excessive rolling or use of loop roller will reduce slip resistance.
12. Lay abutting edges within 10 minutes to ensure a clean edge. A “wet edge” installation is imperative during large placements to avoid lines and ridges in the finished floor.

SHELF LIFE AND STORAGE

6 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%. Do not allow materials to freeze.

LIMITED WARRANTY

Maverick warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). Maverick will replace at no charge the quantity of the Coating that Maverick determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded. Warranty is void if Maverick products are mixed with or used in conjunction with materials that are substituted for Maverick products. Warranty is nontransferable.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use. Use acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

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