



Weather Deck Waterproof, Fire-Retardant Pedestrian Decking



APPROVALS

- One-Hour Fire Resistance Rating
- Class A Fire-Retardant Roofing System
- ICC-ES - Report No. 3389
- City of Los Angeles - RR23811
- California State Fire Marshall

MATERIAL STANDARDS

- ASTM C109
- ASTM C794
- ASTM D2047
- ASTM D4060
- ASTM D570
- ASTM D638
- ASTM E108
- ASTM E119
- ASTM G23
- AC 308/S4.3; S4.8
- UBC 15-2
- MIL-D-3134 (Para. 3.9, 4.7.4; Para. 4.7.6)

SPECIFICATION CLASSIFICATIONS

- 07 14 16 Cold Fluid-Applied Waterproofing
- 07 18 13 Pedestrian Traffic Coatings

COLOR

Weather Deck is available in 16 standard Mer-Ko Seal colors and 12 sports court colors, in matte, satin and semi-gloss finishes. Consult the Color Selection Guide for additional details.

Notes: ¹Printed color charts are as closely representative of actual colors as modern printing technology allows. Final color selection should be made from an actual sample. ²Additional fees, lead times and minimum order quantities apply for all custom colors.

AESTHETIC FINISHES/TEXTURES

Traditional trowel and broom finishes are available, in addition to advanced design options such as lace texturing, trowel knock-down, stippling, scoring, stenciling, etc. This wide array of finish options provides unlimited aesthetic design flexibility without sacrificing superior waterproofing protection.

PRODUCT DESCRIPTION

Weather Deck is a multi-layer, cementitious, water-based, elastomeric decking system that provides seamless, synthetic-latex waterproofing membrane protection, superior durability and weatherability using a high-performance, neoprene rubber latex resin.

The incorporation of a “floating” slip-sheet isolates the system’s membrane from substrate cracks and surface imperfections, providing stress relief for thermal expansion and additional system integrity when exposed to moderate seismic movement or substrate settling. Integral coves can be incorporated to provide easy cleanability. Its high-solids, acrylic-latex resin, pigmented sealer provides long-term aesthetic appeal with enhanced design flexibility when accents/colorants are incorporated.

Weather Deck installs at a minimum 1/4” to 3/8” (6.35mm to 9.53mm) finished thickness and is designed for use over properly prepared plywood or concrete substrates. It can also be installed over properly prepared existing surfaces like quarry tile, flagstone, etc. Bodycoat mortar layers can be used to compensate for minor surface irregularities. Sloping can be incorporated for additional protection against water pooling and help prevent elevation problems at doorways, landings, steps, etc. A wide variety of finishing techniques and textures can be used to provide unique aesthetics and additional skid resistance.

USES/APPLICATIONS

- Exterior Flat/Walking Roof Decks
- Observation Decks
- Promenade Decks & Balconies
- Commercial & Residential Pedestrian Traffic Areas
- Walkways & Breezeways

ADVANTAGES

- Seamless, monolithic membrane
- Excellent adhesion to perimeter flashings
- Can be installed over properly prepared existing surfaces
- Maintains elastomeric properties at low temperatures
- Will not soften under extreme solar temperatures
- Resists degradation from sun, ozone and weather
- Superior resistance to many chemicals
- Outstanding long-term durability and performance
- Superior resistance to flexing and twisting
- One-Hour Fire Resistance Rating
- Class A Fire-Retardant Roofing System

LIMITATIONS

- Not designed for vehicular or heavy steel wheeled traffic
- Substrate must be dry before and during application
- Not for use over OSB
- Cold climate applications require additional technical considerations. Consult Mer-Ko for specific requirements.

SKID-RESISTANCE

Additional skid-resistance can be incorporated by broadcasting aggregate into the topcoat. Various sieve sizes are available depending upon the level of skid-resistance desired.

Notes: ¹The use of broadcast aggregate requires Mer-Ko Seal Satin and Semi-Gloss finishes to enhance skid-resistance. ²Skid-resistance and degree of cleanability work inversely. The larger the aggregate size the more difficult it is to clean the finished surface.

PHYSICAL CHARACTERISTICS

Abrasion Resistance	0.375 gram loss (ASTM D4060, C-17 Wheel, 1,000 gram load for 1,000 cycles)
Adhesion	> 755 psi (ASTM C794) (Burlap reinforced membrane)
Compressive Strength	3,500 psi (ASTM C109)
Elongation	0.04 ft./ft. (ASTM D638)
Fire Rating	ICC-ES Listed (ASTM E108, AC 39/S4.3, UBC 15-2) One-Hour, Class A Fire-Retardant Rated
Indentation Characteristics	Complies (MIL-D-3134, Para. 3.9, 4.7.4)
Membrane Value	No seepage under water-heads to 115 ft.
Ozone Resistance	No visual adverse effects after 30 days exposure
Resistance to Aging	400 hours, No visual signs of failure (ASTM G23, AC 39)
Slip Resistance ¹	Dry Leather0.63 (ASTM D2047, Wet Leather0.72 MIL-D-3134, Para. 4.7.6) Dry Rubber.....0.80 Wet Rubber ² 0.84
	<small>¹Tested using Mer-Ko Seal Matte Finish material ²0.60 or better may be achieved by adding microspheres to the topcoat</small>
Solids Content	38% Minimum
Tensile Strength	>625 psi (ASTM D638) (Glassmat reinforced)
Thickness	1/4 to 3/8 inch (6.35 to 9.5mm)
Water Absorption	Average 7.9% (ASTM D570, AC 39/S4.8)
Weight	2.5 lbs/ft ²

CHEMICAL RESISTANCE

Solution	Staining	Crazing	Softening	Delamination	Spalling
Industrial Detergent	1	No	No	No	No
Ammonia Solution	2	No	No	No	No
Muriatic Acid	2	No	No	No	No
Chlorine Solution	2	No	No	No	No
Anti-Freeze	1	No	Yes	No	No
Salt Solution	1	No	No	No	No

1 = Unaffected 2 = Superficial 3 = Considerable

WARRANTY

Five (5), ten (10) and fifteen (15) year warranties are available depending upon product selection and project design. Contact Mer-Ko's Customer Service Department for specific warranty information.

Any recommendation or suggestion relating to the use of MER-KO products made via current technical literature, marketing materials, application guides, specifications, and the like, or in response to specific inquiry or otherwise, is based on data believed to be reliable. However, the products and information are intended for use by Buyers having requisite skill and know-how in the industry. Therefore, it is the responsibility of the Buyer to satisfy the necessary requirements of suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. Mer-Ko believes the information contained herein is true and accurate as of the date of publication. Information contained here is for evaluation only. Mer-Ko reserves the right to modify and/or change products or literature at any time and without prior notice.

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INSTALLATION STEPS – OVERVIEW

- Clean and properly prepare the plywood or concrete substrate.
- Install the deck perimeter flashing using No. 26 gage bonderized steel or equivalent.
- Install Conbase MB40 slip-sheet over the deck surface ending two (2) inches from all vertical surfaces. Adhesively bond the Conbase at seams and attach end terminations to flashings using Hydro-Shield 380 Seam Adhesive.

Note: Be sure to overlap seams 2 inches and stagger or offset end of roll terminations.

- Brush apply a primer coat using a mix of Weather Deck Membrane Filler mixed with Weather Deck Emulsion along the flashing and trowel apply over the entire horizontal deck slip-sheet substrate at approximately 1/16" (1.59 mm).
- Prepare the deck perimeter by brush applying Weather Deck Waterproofing Membrane to the flashing, immediately followed by embedding 10" Type III Synthetic Burlap Fabric. Then, immediately saturate with a second coat of Weather Deck Waterproofing Membrane.
- Trowel apply Weather Deck Waterproofing Membrane over the primer coat and immediately embed Glassmat Type II or synthetic burlap (Type III Fabric) into the wet Membrane. Align the fabric perpendicular to the slip-sheet. Then, immediately follow with a second trowel application of Waterproofing Membrane to completely saturate the fabric.

Note: Apply the membrane/fabric/membrane layers in sections working across and off the deck surface, overlapping the fabric edges 2 inches minimum at each pass. This will reduce installation time and minimize the opportunity for wet material to be tracked off of the deck and require additional clean-up.

- Trowel apply bodycoat material consisting of Weather Deck Bodycoat Powder mixed with Weather Deck Emulsion in one or two (1 or 2) applications to achieve a minimum 1/8" (3.18 mm) bodycoat thickness and create a highly flexible, durable wearing surface.
- Rough sand or lightly trowel scrape any high point surface imperfections.
- Apply a tight smoothing coat of Weather Deck Membrane Filler mixed with Weather Deck Emulsion to create an easy to maintain, smooth surface. An optional second smoothing coat can be applied to achieve an extra smooth finish as required.
- Lightly sand the surface to create a smooth finish or add surface texture as desired.
- Apply one (1) coat of Prep Seal Primer. Ensure complete coverage.
- Apply two coats of Mer-Ko Seal topcoat in the desired color and finish for added aesthetic appeal.

Notes: ¹Additional aggregate can be broadcast into the topcoat to provide additional texture and increased skid-resistance. ²The use of aggregate is recommended when applying and requires Mer-Ko Seal Satin and Semi-Gloss finishes.

TECHNICAL ASSISTANCE

Specification assistance is highly recommended during the initial design process to ensure the most effective engineering details and product selection for long-term durability and protection. Technical assistance for all product and application questions is available by contacting your local Mer-Ko Representative at (800) 851-6303.