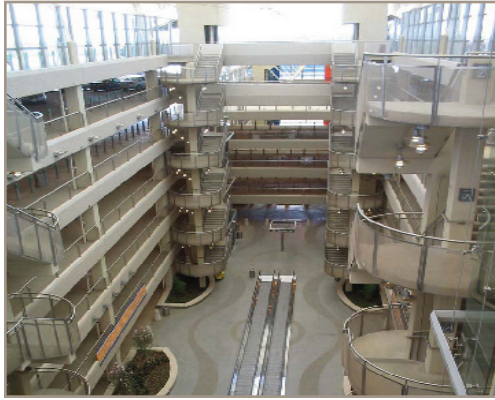


Auto Deck Waterproof Parking Deck Surfacing



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 D2240
- ASTM D4060
- ASTM D638
- ASTM E108
- ASTM G23
- MIL-D-3134 (F; Para. 4.7.6)

SPECIFICATION CLASSIFICATIONS

- 07 14 16 Cold Fluid-Applied Waterproofing
- 07 16 13 Polymer Modified Cement Waterproofing
- 07 18 13 Pedestrian Traffic Coatings
- 07 18 16 Vehicular Traffic Coatings
- 07 19 00 Water Repellents
- 07 55 53 Elastomeric Protected Membrane Roofing
- 07 55 56 Fluid-Applied Protected Membrane Roofing

MATERIALS NEEDED

- 10" Synthetic Burlap
- 40" Synthetic Burlap
- ARC Emulsion
- ARC Membrane Filler
- Auto Deck Waterproofing Membrane
- Auto Deck Emulsion
- Auto Deck Bodycoat Powder
- Prep Seal Primer
- Silica Sand 60
- Mer-Thane 300/310 Topcoat

PRODUCT DESCRIPTION

Auto Deck is a multi-layer, water-based, elastomeric decking and roofing system that provides seamless, synthetic-latex waterproofing membrane protection and superior durability and weatherability using a high-performance, neoprene rubber latex cement mortar and urethane topcoat. This integral system is designed to provide superior positive side waterproofing, concrete substrate protection and aesthetics for light to heavy vehicular traffic applications and helipad operations that require protection from common environmental conditions (i.e., moisture and heat). Auto Deck also offers resistance to common petroleum based chemicals typically found in vehicular traffic, helipad and machine/equipment maintenance environments (e.g., oil, brake fluid, transmission fluid).

Integral coves can be incorporated to provide additional waterproofing protection and easy cleanability. The use of Mer-Ko's Mer-Thane topcoat, a high-performance urethane sealer, provides long-term durability and aesthetic appeal using standard and custom color options that enhance any design motif or safety marking requirements.

Auto Deck installs at a minimum 1/8" to 3/16" (3.2mm to 4.7mm) finished thickness and is designed for use over properly prepared new or existing concrete substrates. Mortar layers can be sloped for additional drainage and protection against water pooling and penetration and to prevent elevation problems at doorways, landings, steps, elevator shafts, etc.

Auto Deck incorporates membrane flashing for drains, vertical surfaces and thresholds. A wide variety of finishing techniques and textures can be used to provide additional skid resistance and enhanced aesthetics.

USES/APPLICATIONS

- Multi-Level Parking Structures/Vehicular Parking Areas
- Helipads
- Commercial Ferry Decks
- Exterior Flat/Walking Roof Decks
- Recreational Roof Decks
- Transportation Vehicle & Equipment Maintenance Areas
- Marine Dry Dock & Refurbishment Areas
- Decorative Exterior Positive Waterproofing Applications

SUBSTRATES

Auto Deck can be installed over properly prepared concrete substrates for new construction, renovation or maintenance applications.

PACKAGING

	<u>Gallons (U.S.)</u>	<u>Metric Units</u>
Primer		
ARC Emulsion	5 gallon pail	19.8 liter pail
ARC Membrane Filler	40 lb. bag	18.1 kg bag
Waterproof Membrane		
Auto Deck Waterproofing Membrane.....	5 gallon pail	19.8 liter pail
Fabric		
Synthetic Burlap 10"	300 In. ft. roll	91 L/m ²
Synthetic Burlap 40"	300 In. ft. roll	91 L/m ²
Bodycoat		
Auto Deck Emulsion	5 gallon pail	19.8 liter pail
Auto Deck Bodycoat Powder.....	50 lb. bag	22.7 kg bag
Aggregate		
Silica Sand 60	100 lb. bag	45.4 kg bag
Intercoat Primer		
Prep Seal Primer	2&5 gallon pails ..	7.6&19.8 liter pails
Topcoat		
Mer-Thane 300/310 Topcoat	5 gallon pail	19.8 liter pail

COVERAGES

Note: Coverage rates are approximate only and can vary greatly due to surface conditions, humidity, temperature and installation techniques.

Base Flashing –

Primer Coat..... 100 sq. ft. (9.29 L/m)/1.4 gallon mix
Yield: 20 mil (0.51mm) DFT

Base Flashing –

Reinforced Waterproofing Membrane

Auto Deck

Waterproofing Membrane..... 150 ln. ft. (45.72 L/m)/5 gallon pail
Yield: 30 mil (0.76mm) DFT

Synthetic Burlap 10"..... 300 ln. ft. (30.5 L/m)/roll

Horizontal Deck Surface –

Primer Coat..... 360 sq. ft. (33.45 m²)/2 gallon pail
Yield: 20 mil (0.51mm) DFT

Auto Deck Waterproofing Membrane

1st Base Application 200 sq. ft. (18.6m²)/5 gallon pail
Yield: 30 mil (0.76mm) DFT

Fabric Type III (40" Synthetic Burlap)..... 1,000 sq. ft. (92.9m²)/roll

Auto Deck Waterproofing Membrane

2nd Base Application 200 sq. ft. (18.58m²)/5 gallon pail
Yield: 30 mil (0.76mm) DFT

Bodycoat – 1st Application..... 70-75 sq. ft. (6.5-7.0 m²)/50 lb. bag
Yield: 63 mil (1.6mm) DFT

Bodycoat – 2nd Application..... 70-75 sq. ft. (6.5-7.0 m²)/50 lb. bag
Yield: 63 mil (1.6mm) DFT

Intercoat Primer 750-800 sq. ft. (27.87-37.2m²)/2 gallon mix
1,750-2,000 sq. ft. (69.68-92.9m²)/5 gallon mix

Note: Always apply Prep Seal intercoat primer after the smoothing coat and between any Weather Deck system layers that have cured for 72 hours or more. Do not leave any layer unprotected for more than 90 days prior to completing the full system installation, including final topcoat application.

Topcoat 750-1,000 sq. ft. (69.7-92.9 m²)/5 gallon pail

Note: Additional topcoat material is required for textured or skid resistant finishes.

COLORS

Auto Deck is available in 8 standard colors. Reference the Auto Deck Color Selection Guide for additional details. Custom colors are available upon request.

Notes: ¹Production run colors may vary from color chart. Printed color charts are as closely representative to actual colors as modern printing technology allows. Final color selection should be made from an actual sample. ²Custom colors require additional lead time.

INSTALLATION CONDITIONS

The Auto Deck system must not be installed if the ambient temperature is below 40°F (4.4°C) or above 100°F (37.8°C), or when precipitation is expected or occurring.

Cold climate applications require additional technical considerations. Consult Mer-Ko for specific requirements.

SUBSTRATE PREPARATION

Clean the application area using a power sprayer, grinder, shot blaster or scarifier as required to produce a clean, sound substrate. The substrate surface must be clean, dry and free of dust and any other contaminants at the time of material application. A minimum roof deck slope of 2% (1/4 unit vertical in 12 units horizontal) is required for proper drainage.

Concrete Surfaces

Concrete surfaces must be clean, sound and have a finish equivalent to steel troweling to provide a smooth, uniform surface free of depressions and ridges. All holes, cracks and joints must be cleaned and filled with an appropriate Mer-Ko Underlayment. All high spots must be removed by chipping or grinding.

APPLICATION INSTRUCTIONS

Primer Coat

Using No. 28 gage galvanized steel or equivalent flashing around the perimeter, apply a primer coat using a mixture of ARC Emulsion and ARC Membrane Filler along the flashing and over the entire horizontal substrate. Brush apply to the flashing; trowel apply to the horizontal substrate pulling the material tight. Allow the primed area to dry for a minimum of one (1) hour.

Notes: ¹After cure, check the surface of the primer coat and remove minor surface imperfections and high points by lightly trowel scraping the area. ²ARC Emulsion material must be protected from freezing and from high temperatures.

Base Flashing – Reinforced Waterproof Membrane

Waterproof the flashing area by brush applying one (1) coat of Auto Deck Waterproofing Membrane onto the primed surface. Immediately embed the 10" synthetic burlap in the wet Waterproofing Membrane. Saturate the synthetic burlap with additional Waterproofing Membrane. The burlap is to be approximately four (4) inches (102mm) wide on all vertical surfaces and approximately five (5) inches (127mm) wide onto the flat surface. Make sure the burlap is fitted tightly in corners and around protrusions. Allow to cure.

Note: Be sure to install the synthetic burlap with filament side down.

Waterproof Membrane with Fabric Reinforcement

Trowel apply one (1) thick coat of Auto Deck Waterproofing Membrane over the primed horizontal substrate ensuring complete coverage. Brush apply to cover the edge areas. After the first thick coat of Waterproofing Membrane has been applied and while the material is still wet, embed the Fabric Type III Synthetic Burlap (40") into the wet Waterproofing Membrane. Overlap edges of the fabric approximately three (3) inches (76.2mm) throughout the entire application.

Firmly trowel-push the fabric into the wet membrane material to ensure that it is completely embedded. No dry or fabric material spots should be visible and the fabric should lay completely flat and without wrinkles. Follow immediately with an additional roller or trowel applied heavy coat of Waterproofing Membrane to ensure complete saturation. Apply additional Waterproofing Membrane over flashing areas to ensure positive waterproofing (no pinholes). Brush apply Waterproofing Membrane into tight areas and corners to fill holes and other voids.

Allow the entire area to dry thoroughly, usually overnight, until dry enough to walk on without leaving impressions. Applications in elevated humidity conditions will require additional cure time.

Note: ¹Be sure to install the Fabric Type III Synthetic Burlap (40") with the filament side down. ²Apply the membrane/fabric/membrane layers in small sections working across and off of the deck surface. This will reduce installation time and minimize the opportunity for wet material to be tracked off of the deck surface.

Application Guide

Auto Deck

Bodycoat – 1st Application

Mix one (1) to one and one-quarter (1-1/4) gallons of Auto Deck Emulsion to one (1) 50 lb. bag of Auto Deck Bodycoat Powder. Trowel apply over the dry membrane (vertical and flat surfaces) at a minimum 1/16 inch (1.59mm) thickness. Allow to dry a minimum of two (2) hours.

Bodycoat – 2nd Application

Mix one (1) to one and one-quarter (1-1/4) gallons of Auto Deck Emulsion to one (1) 50 lb. bag of Auto Deck Bodycoat Powder. Trowel apply a second bodycoat over the first (vertical and flat surfaces) at a minimum 1/16 inch (1.59mm) thickness. Allow to dry a minimum of two (2) hours.

Note: ¹Auto Deck Emulsion material must be protected from freezing and from high temperatures. ²Total minimum thickness of the Bodycoat layer will be 1/8 inch (3.2mm).

Rough Sand

Remove any irregular surface areas by rough sanding using an 80-grit sand stone or lightly trowel scraping (e.g., overlaps or cold joints). Sweep resulting debris clean to allow a secure bond of the Smoothing Coat.

Intercoat Primer

Apply Prep Seal Primer after rough sanding to ensure adequate adhesion and complete coverage of the Mer-Thane 300/310 Topcoat.

Topcoat – 1st Application

Sweep the entire deck surface clean of any residual dust or debris. Roller apply Mer-Thane 300/310 Topcoat in the selected color and finish to all vertical, base and flat deck areas with a 3/16 inch to 3/4 inch nap roller. Allow to dry for a minimum of one (1) hour.

Additional Texture

Silica sand or quartz aggregate can be broadcast into the wet topcoat to provide additional texture and skid-resistance. Allow to dry for a minimum one (1) hour after broadcast. Then, sweep or vacuum clean any loose aggregate before proceeding.

Note: Additional topcoat material may be required for textured or skid resistant finishes depending upon usage and application conditions.

Topcoat – 2nd Application

Roller apply the second Mer-Thane Topcoat in the selected color perpendicular to the first. Allow to dry a minimum of one (1) hour.

CAUTIONS & LIMITATIONS

- The substrate surface must be structurally sound, clean, dry and free of dirt, dust, oil, grease, paint or other contaminants at the time of material application. A minimum deck slope of 2% (1/4 unit vertical in 12 units horizontal) is required for proper drainage.
- The substrate must be smooth. Irregularities, if not corrected, will reflect on the Auto Deck surface.
- In freezing climates, sufficient pitch is required to ensure run-off. When covering a “sandwich slab”, provision must be made to vent the envelope created between the existing vapor barrier and the Auto Deck.
- Drains must be of a design suitable to receive Auto Deck flashing.
- Concrete substrates must have a minimum compressive strength of 1,000 psi tested by “point loading” technique.
- The moisture content of the substrate should be checked and approved by an authorized Mer-Ko installer prior to installation.
- When contemplating an installation with an open soffit, or over an unheated enclosed space (e.g., garage, etc.) in freezing, damp or severe climates, consult Mer-Ko for recommendations.

CARE & MAINTENANCE

Auto Deck is designed to provide easy cleanability and low-maintenance. To extend the life of the deck to its maximum potential, establish a regular cleaning schedule using a mild soap and water solution, TSP (Tri Sodium Phosphate), Formula 409® Antibacterial All Purpose Cleaner or Formula 409® Glass & Surface Cleaner or similar products. Use a stiff broom or scrub brush to remove any contaminants on the surface of the deck. Rinse thoroughly with clean water after scrubbing. Do not use solvents to remove contaminants as this may cause damage to the deck surface.

The colored topcoat is designed to resist direct exposure to environmental elements and withstand normal wear. When traffic patterns become visible or heavy impacts mar the surface, the topcoat should be re-applied to restore aesthetic appeal. Decks should be re-sealed every three (3) years for best results, or per the schedule listed on the warranty issued. (Refer to Auto Deck’s Care & Maintenance Instructions for more detailed information on proper care and re-sealing.

STORAGE & HANDLING

Store all Auto Deck materials in a dry environment at temperatures between 40°F and 100°F (4.4°C and 37.8°C). All materials should be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight.

SHELF LIFE

The shelf life is six (6) months from the date of manufacture in the original, unopened container when the material is stored at temperatures between 40°F and 100°F (4.4°C and 37.8°C).

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.

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.

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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