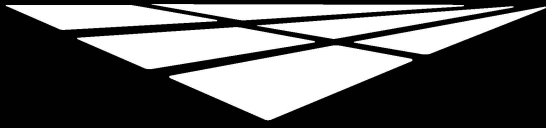


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MER-KO SYSTEM



WATERPROOF
RELIABLE MOISTURE BARRIERS



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MER-KO SYSTEM SUBMITTAL PACKAGE

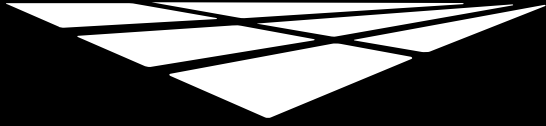
DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 07 18 13 PEDESTRIAN TRAFFIC COATINGS

PLYWOOD AND CONCRETE SURFACES

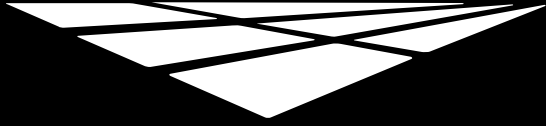
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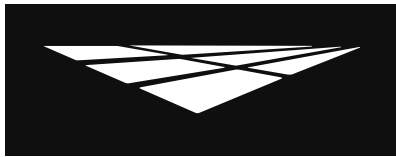
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SYSTEM BROCHURE



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SYSTEM SPECIFICATION SHEET



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SYSTEM SPECIFICATION

WP

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Mer-ko[®] System

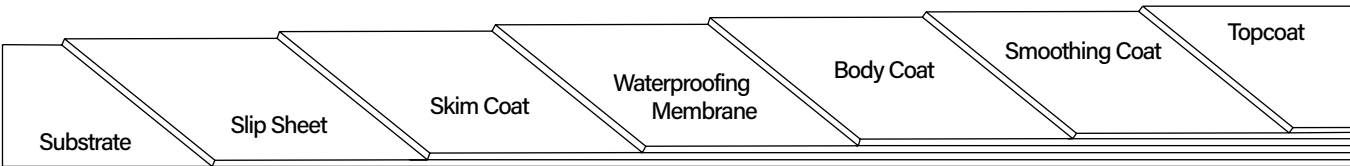
Description

The Mer-ko System is a multi-layer decking system that provides seamless, waterproofing membrane protection, superior durability and weather-ability using all high-performance materials. Installs at a minimum 1/4 to 5/16 inch finished thickness and is designed for use over properly prepared plywood or concrete substrates. The incorporation of a “floating” slip-sheet isolates the system’s membrane from substrate cracks and minor surface imperfections, providing stress relief for thermal expansion and system integrity when exposed to moderate seismic movement. The Mer-ko System is finished with a high-solids, pigmented acrylic sealer which provides long-term protection of the system from UV degradation, offering aesthetic appeal and enhanced design flexibility.


Uses

The Mer-ko System is designed for exterior walking roof decks, observation decks, promenade decks and balconies, all pedestrian traffic areas and walkways and breezeways.

System Overview



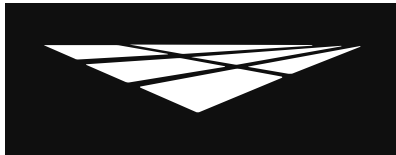
System Data

Coverages	Skim Coat	Membrane Coat	Body Coat	Smoothing Coat	Top Coat
	200 ft ² per mix (Yield 1/32")	Flashing 50 ft ² per gal Deck 1st: 40-45 ft ² per gal Deck 2nd: 130-140 ft ² per gal	40-45 ft ² per mix (Yield 1/8")	150-200 ft per mix (Yield 1/32")	300-350 ft ² per gal
Components	WP-53 Hybrid Sealant WP-49 Mer-ko Slip Sheet WP-45 Flashing Fabric WP-95 Waterproofing Membrane WP-89 Liquid Emulsion TC-14 Fine Deck Cement WP-48 Tri-Directional Fiberlath TC-13 Coarse Deck Cement SC-10 Acrylic Topcoat		Shelf Life		
			1 year 5 years Indefinite 1 year 1 year 1 year 1 year 1 year 2 years		
Certifications	IAPMO Evaluation Report ER-517 Class A Fire-Retardant Roofing System One-Hour Fire Resistance Rating Class I Vapor Retarder ASTM E96 Meets 2023 City of Los Angeles Building and Residential Code (LABC & LARC)				

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Advantages

Seamless, Monolithic Membrane • Excellent Adhesion to Most Sound, Dry Substances • Maintains Elastomeric Properties at Low Temperatures • Will not Soften Under High Temperatures • Resists Degradation from UV, Ozone and Weathering • Outstanding Long-Term Durability and Performance • Superior Resistance to Flexing and Twisting • One-Hour Fire Resistance Rating • Class A Fire-Retardant System

Inspection

Concrete must be a minimum of 2 inches thick. It must be clean, dry and free of grease, paint, oil, dust, curing agents, laitance or any foreign material that will prevent proper adhesion. The concrete should be at least 3,000 PSI, porous and able to absorb water. A minimum of 28 days curing time is required on all concrete. Slope must be a minimum of ¼ inch per linear foot. Decks should meet local building code.

Plywood must be a minimum of 5/8 inch (¾ inch preferred) CDX or exterior grade. Slope must be a minimum of ¼ inch per linear foot to allow for proper drainage. Decks should meet local building codes. The deck shall be tongue and groove, completely blocked and nailed (glued and screwed is best). Plywood shall have a maximum joist span of 16 inches. Deflection should be less than L/360. OSB is not a suitable substrate for this material. Moisture vapor commonly collects in areas below a vapor barrier, such as the waterproofing membrane of the deck covering system. Venting must be added to help relieve moisture vapor transmission. Please refer to all local building codes regarding venting requirements.

Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 4% by weight using a concrete moisture meter (ASTM F2659) or if the relative humidity (RH) exceeds 75% (ASTM F2170), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

Preparation

Prepare concrete to a profile equal to CSP 3 as specified by ICRI.

Flashing

Westcoat requires a minimum of 26-gauge bonderized sheet metal. Use 4 x 6 inch 'L' flashing at the junction of the wall and deck. Use 2 x 4 inch drip edge flashing for fascia edge. Overlap all ends at least four inches. Apply two beads of WP-53 Hybrid Sealant to all seams. Nail flashing every 4-6 inches. Flashing for concrete should be set in a bed of EC-72 and nailed only as needed. The vertical portion of the wall to deck flashing should be nailed at all studs, after the epoxy base has cured. (Note: If the flashing is not bonderized, it must be prepared in accordance with SSPC-SP11 surface preparation standards, in order for the coating to adhere properly). Do not use Copper Flashing with the Mer-ko System.

Wall Vents

Wall vents help alleviate vapor transmission pressure that can build up underneath the waterproofing membrane of the waterproof deck system. It is recommended that wall vents be installed in the flashing, on all decks that are larger than 500 square feet or approximately one vent for every 300 square feet. Wall vents are available from Thunderbird Products (www.thunderbirdproducts.com).

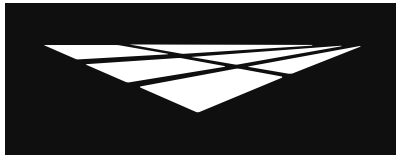
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SYSTEM
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Plywood

Fill all plywood seams with TC-14 Fine Deck Cement. Combine 1.75 to 2 gallons of WP-89 Liquid Emulsion and up to 1 quart of water with one 40 lb. bag of TC-14 Fine Deck Cement. Blend with a mechanical mixer until an even consistency is achieved. Fill plywood seams and strike flush prior to drying. A mason's grout bag may be used to expedite this process. After material has dried remove surface imperfections by lightly scraping or sanding. Be sure to remove all debris prior to commencing with the next step.

Concrete

All holes shall be cleaned and filled with WP-53 Hybrid Sealant or an appropriate Underlayment. All high spots shall be removed by chipping or grinding. Concrete control joints shall meet local building codes and comply with industry standards.

Slip Sheet

Apply WP-49 Mer-ko Slip Sheet over the entire deck with a 2 inch distance from all vertical surfaces, parapets, drain openings, etc. The slip sheet edges shall overlap a minimum of 2 inches and end of roll terminations shall be staggered. A ¼ inch bead of WP-53 Hybrid Sealant shall be used to bond slip sheet overlaps, the slip sheet to the deck perimeter and the slip sheet at intermediate locations to limit the non-bonded area to a maximum of 4000 square feet. All seams should be rolled with a weighted roller to ensure the slip sheet is flat and even. A minimum 24 hours drying time at 70F degrees, 50 percent relative humidity shall be observed before continuing with the installation of the primer coat.

Skim Coat - Flashing and Horizontal Surface

The Skim Coat is prepared by mixing one bag of TC-14 Fine Deck Cement with 1.5 to 2 gallons of WP-89 Liquid Emulsion. The Skim Coat is applied by trowel over the entire horizontal substrate and adjacent flashing surfaces where bonding will occur, to a minimum 1/32 inch thickness. A minimum two hours drying time at 70F degrees, 50 percent relative humidity shall be observed before continuing with the application of the waterproof membrane. Minor surface imperfections shall be treated by scraping and/or sanding. Ensure all dust and debris has been removed.

Waterproofing Membrane with Fabric Reinforcement (Flashing)

Apply a coat of WP-95 Waterproofing Membrane onto the vertical and adjacent horizontal surface using a brush or roller at a rate of 50 square feet per gallon. Immediately after the WP-95 has been applied and while the material is still wet, place the WP-45 Flashing Fabric fuzzy side down into the wet WP-95, overlapping successive runs of fabric edges and ends a minimum of 2 inches. Make sure the fabric is fitted tightly in corners and around protrusions. Apply additional WP-95 as necessary over the fabric to ensure positive waterproofing and that the fabric is completely covered. No dry or fabric material spots shall be visible and the fabric shall be completely flat and without wrinkles.

Waterproofing Membrane with Fabric Reinforcement (Deck)

Install the WP-48 Tri-Directional Fiberlath to the horizontal surfaces. Roll out the WP-48 and cut to size. Lay the lath "curl side" down over the Base Coat. Overlap successive runs of WP-48 edges and ends a minimum of 2 inches. Pour the WP-95 Waterproofing Membrane onto the WP-48 and trowel smooth and back roll completely covering the WP-48. The coverage rate of the WP-95 in this application is 45-50 square feet per gallon. Apply additional WP-95 as necessary over areas to ensure positive waterproofing. Apply an additional coat of the WP-95 over the entire surface at a rate of 130 to 140 square feet per gallon by trowel or roller. Let dry a minimum of 24 hours or until dry enough to walk on without leaving impressions. Applications in elevated or high humidity conditions will require additional dry time.

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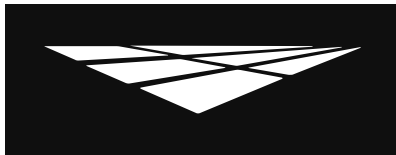


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Body Coat

The Body Coat is a two-coat application and is prepared by mixing 1 to 1.25 gallons of WP-89 Liquid Emulsion and up to 1 quart of water to one bag of TC-13 Coarse Deck Cement. The first coat is troweled across the dry membrane at a rate of 80 to 90 square feet per mix. A second coat is applied again, at a rate of 80-90 square feet per mix. Allow a minimum of 2 hours between coats. The Body Coat should equal a minimum $\frac{1}{8}$ inch total thickness. Allow the Body Coat to dry a minimum 4 hours at 70F degrees, 50 percent relative humidity. Remove minor surface imperfections by lightly scraping or sanding. Ensure all dust and debris has been removed.

Smoothing Coat

The Smoothing Coat is mixture of 1.5 to 2 gallons of WP-89 Liquid Emulsion and up to 1.5 quarts of water to one 40 lb. bag of TC-14 Fine Deck Cement. The mixture is applied over all vertical and horizontal surfaces at a rate of 150-200 square feet per mix, producing a minimum $\frac{1}{32}$ inch thickness. Optionally, for texture or an extra smooth surface, apply a second coat. The first coat needs to dry a minimum of two hours before proceeding with any second application. Allow the final coat to dry a minimum 24 hours at 70F degrees, 50 percent relative humidity and then the surface can be sanded to produce the desired level of finish. Ensure all dust and debris has been removed.

Topcoat

Do not apply if rain is forecast within 48 hours or heavy dew within 24 hours. If multiple batches of SC-10 are present, box all materials prior to use, to ensure color consistency. Use a mechanical mixer at a slow speed and mix material until a homogeneous mixture and color is obtained. The material may be thinned by adding up to a maximum of one quart of water per gallon, for the first coat. For best results, it is not recommended to thin the final coat. Roll two thin applications of SC-10 using a $\frac{3}{8}$ - $\frac{1}{2}$ inch roller at a rate of 300-350 square feet per gallon. Roll the material in two directions to achieve a uniform finish. Coverage will vary according to texture. For best results, allow SC-10 4-6 hours drying time at 70F degrees before permitting light pedestrian traffic or additional coats are applied. Allow 24 hours to cure before heavy traffic is permitted. Allow 48 hours before heavy objects are placed on the surface. Allow 5 days prior to any abrasion or chemical exposure.

Application Instructions - On Stairs

Substrate Preparation

After the initial substrate preparation, nail all metal flashings 3 inches on center with staggered spacing using galvanized roofing nails. Install appropriate aluminum stair nosing on all treads using screw nails or galvanized deck screws. Install according to stair nosing manufacturer's recommendation. Protect the bull nose/ finished portion of the stair nosing during application of the Weather Deck system. The WP-49 Mer-ko Slip Sheet is not used on stairs, a direct bond to the substrate occurs.

Skim Coat Flashing, Vertical and Horizontal Surfaces

Apply the Skim Coat to all stairs. Follow the same instructions per section "Skim Coat".

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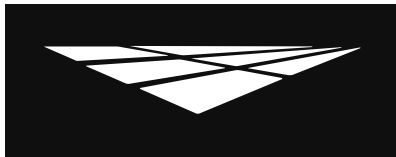


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Waterproofing Membrane with Fabric Reinforcement

Install WP-45 Flashing Fabric to all stairs. Follow the same instructions per section "Waterproofing Membrane with Fabric Reinforcement".

Body Coat

Apply the Body Coat to all stairs. Follow the same instructions per section "Body Coat". Use a torpedo level to check every step for proper pitch.

Smoothing Coat

Apply the Smoothing Coat to all stairs. Follow the same instructions per section "Smoothing Coat".

Topcoat

Apply the SC-10 Acrylic Topcoat to all stairs. Follow the same instructions per section "Topcoat".

Optional Materials

Skid Resistance

- CA-29 Mini Safe Grip, CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the SC-10 Acrylic Topcoat for added skid resistance.

* Please refer to Product and System Specification Sheets for additional information.

Clean Up

Uncured material can be removed with soap and warm water. If cured, material can be removed mechanically or with an environmentally-safe solvent.

Maintenance

Exterior surfaces can be swept daily with water and a broom. For tougher dirt or grease, use degreaser diluted with water 20:1 and a soft bristle brush or broom. Be sure to rinse well. To remove calcium or lime build up, brush diluted 100 grain vinegar onto the surface; be sure to rinse any residue. The Mer-ko System should be inspected for wear every 2 to 4 years. The system should be resealed with the appropriate Westcoat sealer every 3 to 5 years depending upon traffic and UV exposure. Contact the original installer of Westcoat for complete re-coating instructions.

Health Precautions

Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Cements contain silicas; dust mask or respirator should be used when mixing, sanding or grinding.

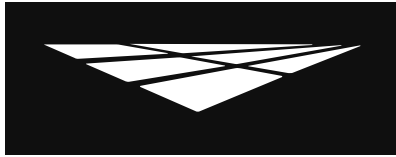
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Limitations

- This system is designed for professional use only.
- In freezing climates, sufficient pitch is required to ensure run-off.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Do not apply at temperatures below 50°F or above 90°F.
- Do not allow Westcoat products to freeze.
- When covering a "sandwich slab" provision must be made to vent the area created between the existing vapor barrier and the Deck.
- When installing a deck system over an unheated enclosed space (e.g., garage, etc.) provisions must be made to vent the area.
- Drains must be of a design suitable to receive Mer-ko system.
- Concrete substrates must have a minimum compressive strength of 3000 psi tested by "point loading" technique.
- Mer-ko System provides moderate chemical resistance. Avoid exposure to harsh chemicals or acids.
- Heavy objects can affect movement of the slip sheet decking system and result in hairline cracks at the surface of the system. Avoid placing heavy objects on or dragging them across the deck surface.
- Cementitious materials should be used within 30 minutes, do not re-temper.
- The substrate must be flat. Irregularities, if not corrected, will reflect on the deck surface.
- Compositions of oxychloride cement, epoxies, urethanes, PVC's, PVA's, silicones, solvent thinned elastomer solutions or combinations thereof will not be considered acceptable under this specification.
- The Waterproofing Membrane should not be exposed for more than 72 hours prior to being covered with the TC-13 Coarse Deck Cement.
- Do not leave any layer unprotected for more than 30 days prior to completing the full system installation, including the final topcoat application.
- Not designed for vehicular or heavy steel wheeled traffic.
- Protect all finished surfaces that are not intended to receive the deck coating system materials.
- Rain will wash away uncured Mer-ko System acrylic products.
- If inclement weather threatens, cover deck to protect new application.
- Sealers will make the surface slippery. Please be aware of the texture of the surface and how the sealer will affect the look, feel and skid resistance.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Moisture vapor commonly collects in areas below a vapor barrier, such as the waterproofing membrane of the deck covering system. Venting must be added to help relieve moisture vapor transmission. Please refer to all local building codes regarding venting requirements.

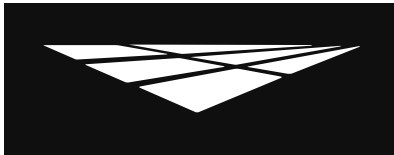
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**SYSTEM
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Slip Precaution

Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors will not be responsible for injury incurred during a slip and fall incident. For the current coefficient of friction requirements, please consult your local building codes.

Test Data

Test	Results
Abrasion Resistance ASTM D4060, C-17 Wheel, 1,000 gram load for 1,000 cycles)	0.375 mg loss
Adhesion (ASTM C794)	>755 psi
Compressive Strength (ASTM C109)	3,500 psi
Elongation (ASTM D638)	0.04 ft./ft.
Fire Rating One-Hour	ASTM E-119
Fire Rating Class A Fire-Retardant Rated	ASTM E-108
Ozone Resistance - 30 day exposure	No visual adverse effects
Resistance to Aging (ASTM G23, AC 39)	2,000 hours No visual signs of failure
Tensile Strength (ASTM D-638)	>625 psi
Thickness	¼ to ⅝ inch
Water Absorption(ASTM D-570, AC 39/S4.8)	Average 7.9%
Weight	Average 2.5 lbs/ft ²

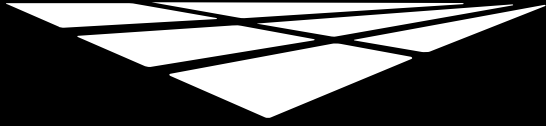
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CSI SPECIFICATION



**DIVISION 7 – THERMAL AND MOISTURE PROTECTION
SECTION 071813 PEDESTRIAN TRAFFIC COATINGS
PLYWOOD & CONCRETE SURFACES**

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Provide a complete acrylic modified cementitious waterproof system for concrete and reinforced plywood surfaces that meet the requirements for specific use indicated in the contract documents. Include all applicable substrate testing, surface preparation, and detail work.

1.02 RELATED SECTIONS

- A. Specified elsewhere:
1. Section 07 24 00 Exterior Insulation and Finish Systems
 2. Section 09 97 26 Cementitious Coatings
 3. Section 07 01 10.81 Waterproofing Replacement
 4. Section 07 10 00 Dampproofing and Waterproofing
 5. Section 07 14 00 Fluid Applied Waterproofing
 6. Section 07 14 16 Cold Fluid Applied Waterproofing
 7. Section 07 16 13 Polymer Modified Cement Waterproofing
 8. Section 09 09 00 Finishes
 9. Section 09 94 00 Decorative Finishing

1.03 REFERENCES

- A. IAPMO – ER-517
B. California Building Code (2022 CBC) & Residential Code (2022 CRC)
C. City of Los Angeles Building Code (2023 LABC) & Residential Code (2023 LARC)
D. Class I Vapor Retarder (ASTM E96)

1.04 SUBMITTALS

- A. Submit under provisions of Section 013300.
B. Product Data: Submit manufacturer's product data sheets on each product and system to be used including:
 1. Preparation instructions and recommendations.
 2. Storage and handling requirements.
 3. Installation methods.
 4. Maintenance requirements.
- C. Selection Samples: For each system specified, provide two sets of samples and color charts representing manufacturer's full range of colors and patterns.

1.05 QUALITY ASSURANCE

- A. All materials used in the pedestrian traffic system shall be manufactured and provided by a single manufacturer to ensure compatibility and proper bonding.

- B. Use adequate numbers of skilled workmen thoroughly trained and experienced in the necessary crafts and completely familiar with the specified requirements and methods needed for proper performance of the work of this section.
- C. Contractor shall have a minimum of 3 years experience installing pedestrian traffic coatings of this type which is required for this project and who is acceptable to the manufacturer.
 - 1. Applicator shall designate a single individual as project foreman who shall be on site at all times during installation.
 - 2. Contractor must show and have QCA Qualified Contractor/Applicator paperwork from the manufacturer of the coating system, as required to obtain a long-term jobsite specific warranty.
- D. Convene a pre-application meeting before the start of application of coating system. Require attendance of parties directly affecting work of this section, including: Architect, contractor, applicator, and authorized representative of the coating system manufacturer and interfacing trades. Review the following:
 - 1. Drawings and specifications affecting work of this section.
 - 2. Protection of adjacent surfaces.
 - 3. Surface preparation and substrate conditions.
 - 4. Application.
 - 5. Field quality control.
 - 6. Protection of coating system.
 - 7. Repair of coating system.
 - 8. Coordination with other work.

1.06 DELIVERY, STORAGE & HANDLING

- A. Delivery: Materials shall be delivered to the job site in sealed, undamaged containers. Each container shall be clearly marked with manufacturer's label showing type of material, color, and lot number.
- B. Storage: Store all materials in a clean, dry place with a temperature range in accordance with manufacturer's instructions.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels and Material Safety Data Sheets prior to use.

1.07 PROJECT SITE CONDITIONS

- A. Maintain environmental conditions (temperature and weather) within the limits recommended by the manufacturer.
- B. Schedule coating work to avoid rain and excessive dust and airborne contaminants. Protect work areas from moisture and excessive airborne contaminants during coating application.
- C. Before any work is started, the applicator shall examine all surfaces for any deficiencies. Should any deficiencies exist, the architect, owner or general contractor shall be notified in writing and any corrections necessary shall be made.

1.08 WARRANTY

- A. Upon completion of the work in this section provide a written warranty from the manufacturer against defect of materials for a period of 5 (five) years. To obtain project specific warranty the coating system applicator must be a Westcoat Qualified Contractor/ Applicator and apply for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable manufacturer: Westcoat Specialty Coatings; 4007 Lockridge Street, San Diego, CA 92102. Telephone 800-250-4519. Website: www.westcoat.com.

2.02 MATERIALS

- A. As basis of design Westcoat Mer-Ko System (no substitutions will be accepted): Slip sheet waterproof walking deck system that provides seamless, waterproofing membrane protection, superior durability and weather-ability using all high-performance materials.

2.03 COMPONENTS

- A. Mer-Ko System: Waterproof walking deck system for use over concrete and plywood substrates, or existing coating, IAPMO #517
1. Slip Sheet: Apply WP-49 Mer-Ko Slip Sheet over the entire deck. A ¼" bead of WP-43 Hybrid Sealant shall be used to bond the WP-49 at the deck perimeter and all overlaps.
 2. Skim Coat: Combine one 40 lb bag of TC-14 Fine Deck Cement with 1.5 to 2 gallons of WP-89 Liquid Emulsion. Apply by trowel over the entire horizontal surface with a minimum of 1/32 inch thickness.
 3. Mer-Ko Membrane with Fabric Reinforcement (Flashing): Apply a thick coat of WP-95 Waterproofing Membrane onto the vertical and adjacent horizontal surface using a brush or roller at a rate of 50 ft² per gallon. While the material is still wet, place the WP-45 Flashing Fabric fuzzy side down into the WP-95, overlapping successive runs of fabric edges and ends a minimum of 2 inches.
 4. Mer-Ko Membrane with Fabric Reinforcement (Deck): Install the WP-48 Tri-Directional Fiberlath to the horizontal surfaces. Pour the WP-95 Waterproofing Membrane onto the WP-48, smooth trowel and back roll at 45-50 ft² per gallon to completely cover the WP-48. Apply an additional coat of the WP-95 over the entire surface at a rate of 130 to 140 ft² per gallon by trowel or roller.
 5. Body Coat: Combine 1 to 1.25 gallons of WP-89 Liquid Emulsion and up to 1 quart of water to one bag of TC-13 Coarse Deck Cement. The first coat is troweled across the dry membrane at a rate of 80 to 90 ft² per mix. A second coat is applied again, at a rate of 80-90 ft² per mix. The Body Coat should equal a minimum 1/8 inch total thickness.
 6. Smoothing Coat: Combine 1.5 to 2 gallons of TC-13 Liquid Emulsion and up to 1.5 quarts of water to one 40 lb. bag of TC-14 Fine Cement. Apply over all vertical and horizontal surfaces at a rate of 150-200 ft² per mix, producing a minimum 1/32 inch thickness.
 7. Topcoat: Apply desired color of the SC-10 Topcoat in two coats. Apply the first coat at the rate of 300 to 350 ft² per gallon. Allow to dry for 2 hours at 70°F, 50 percent relative humidity. Then apply a second coat of the SC-10 perpendicular to the first, at the rate of 300 to 350 ft² per gallon

2.04 ACCESSORIES

- A. Supplemental Materials:
1. Flashing shall be minimum 26 gauge bonderized sheet metal. 4" x 6" inch at wall to deck juncture and 4" x 2" drip edge at outside perimeter of deck. Caulk all flashing seams and overlaps using WP-53 Hybrid Sealant. (Note: If the flashing is not bonderized, it must be prepared in accordance with SSPC-SP11 surface preparation standards, in order for the coating to adhere properly).
 2. Drains for plywood shall be WP-35 ALX Deck Drain available through Westcoat or Thunderbird Products. (www.thunderbirdproducts.com).
 3. Optional Slip Resistance: CA-29,30,31 Slip Resistant Additive added to topcoat.
 4. Wall vents are required on all decks larger than 500 ft² or approximately one vent for every 300 ft². Wall vents are from Thunderbird Products.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of conditions.
1. Inspect all surfaces to receive the pedestrian traffic system. Verify that surfaces are dry, clean, and free of contaminants that would prevent coating system from properly adhering to the surface.
 2. Verify that substrates have ¼ inch slope per lineal foot.
 3. Before starting work, report in writing to the owner any unsatisfactory conditions.

3.02 SURFACE PREPARATION

- A. General:
 - 1. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Plywood substrate:
 - 1. Provide minimum 5/8 inch CDX exterior grade plywood.
 - 2. Plywood shall have a maximum joist span of 16 inches.
 - 3. Deflection should be less than L/360.
- C. Concrete substrate:
 - 1. Create a surface profile by grinding, water blasting, or shot blasting to achieve a surface profile equal to CSP 3 as specified by ICRI.
 - 2. Rout and clean cracks and static joints: fill with manufacturer's recommended flexible epoxy filler material.
 - 3. Honor all moving and expansion joints. Seal with manufacturer's recommended joint sealant.
 - 4. Repair any non-moving surface deviations with manufacturer's recommended patching material.

3.03 INSTALLATION

- A. Install coatings in accordance with manufacturer's instructions.
- B. Mix all materials in accordance with manufacturer's instructions.
- C. Use application equipment, tools, and techniques in accordance with manufacturer's instructions.
- D. Uniformly apply coatings at spread rates and in number of coats to achieve specified coverage.
- E. Adhere to all limitations, instructions, and cautions for pedestrian coatings as stated in the manufacturer's published literature.

3.04 FIELD QUALITY CONTROL

- A. Verify coatings and other materials are as specified.
- B. Verify coverages and finish of the system as work progresses.
- C. Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of coating systems.

3.05 PROTECTION AND CLEAN-UP

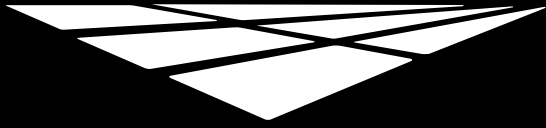
- A. Installation areas must be kept free from traffic and other trades during the application procedure and cure time.
- B. Protect finished surfaces of coating system from damage during construction.
- C. Touch-up, repair or replace damaged coating system after substantial completion.
- D. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current Local, State and Federal regulations.
- E. Allow material to cure 4 to 6 hours before light pedestrian traffic is permitted, 24 hours before heavy traffic and an additional 48 hours before heavy objects are placed on the surface.

3.06 MAINTENANCE

- A. Contractor shall provide to owner, maintenance and cleaning instructions for the floor system upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.

END OF SECTION

This guide specification has been prepared by Westcoat Specialty Coating Systems to assist design professionals in developing a project specific specification. This guide is a template that must be reviewed and adapted by specifiers to comply with project requirements. This guide specification is not to be copied directly into a project specification manual without review.



westcoat®

EVALUATION REPORT



WESTCOAT
4007 Lockridge Street
San Diego, CA 92102
(844)-537-7203
www.Westcoat.com

**SHUR DECK, SHUR DECK PRO,
 SHUR DECK OVER CONCRETE, AND
 MER-KO SYSTEMS**

CSI Sections:
07 18 13 Pedestrian Traffic Coatings
07 50 00 Membrane Roofing

1.0 RECOGNITION

The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems recognized in this report have been evaluated for use as walking deck and roof covering systems. The durability, impact resistance, weather resistance, wind uplift resistance, roof fire classification, and fire-resistance-rating properties of the Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems were evaluated for compliance with the following codes:

- 2021, 2018, and 2015 International Building Code® (IBC)
- 2021, 2018, and 2015 International Residential Code® (IRC)
- 2022 California Building Code (CBC) – attached Supplement
- 2022 California Residential Code (CRC) – attached Supplement
- 2023 City of Los Angeles Building Code (LABC) – attached Supplement
- 2023 City of Los Angeles Residential Code (LARC) – attached Supplement

2.0 LIMITATIONS

Use of the Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems recognized in this report is subject to the following limitations:

2.1 Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems shall be manufactured, identified, and installed in accordance with this report and the applicable code. In the event of a conflict, the more restrictive governs.

2.2 Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems shall be installed on slopes not less than ¼ inch per foot (2-percent slope).

2.3 The supporting structure shall be designed to support the loads and is beyond the scope of this report.

2.4 Connection of deck perimeter flashing to substrates shall be designed to meet all applicable code requirements.

2.5 The Westcoat Shur Deck, Shur Deck Pro, Shur Deck over Concrete, and Mer-Ko Systems are manufactured in San Diego, CA.

3.0 PRODUCT USE

3.1 General: The Westcoat Shur Deck, Shur Deck Pro, Shur Deck over Concrete, and Mer-Ko Systems recognized in this report are elastomeric walking deck and roof covering systems used directly over plywood or concrete substrates, as applicable.

3.2 Fire Classification Roof Assemblies: The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems are components of Class A roof assemblies when installed in accordance with this report at a minimum slope of ¼ inch per 1 foot (2-percent slope).

3.3 One-hour Fire-resistance-rated Floor(Roof)/Ceiling Assembly: The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, or the Mer-Ko systems, when installed in accordance with Section 3.5 of this report over minimum 5/8-inch-thick exterior-grade plywood, with minimum 2-by-8 solid sawn lumber joists spaced at 16 inches on center maximum, with all plywood joints blocked, may be used in place of the double wood floor described in Construction 13 of 2021, 2018, and 2015. Ceiling construction shall comply with Item Numbers 13-1.1 to 13-1.4 of 2021, 2018, and 2015.

3.4 Wind Resistance: Installation to plywood is limited on structures with a maximum height of 40 feet (12.2 m), for use in Exposure B areas subject to the following:

- a) A basic wind speed of 130 miles per hour under the 2021 IBC and 2018 IBC.
- b) A maximum design wind speed of 130 miles per hour under the 2021 IRC, 2018 IRC, 2015 IBC, and 2015 IRC.

The maximum allowable wind loads are limited by the capacity of the deck construction. The decking shall be designed to withstand wind pressures in accordance with Section 1609.5.1 of the IBC or Section R301.2.1 of the IRC.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with Section 104.2.3 of the 2024 IBC and Section 104.11 of previous editions. This document shall only be reproduced in its entirety.





3.5 Installation:

3.5.1 Westcoat Shur Deck, Shur Deck Pro, and Shur Deck Over Concrete Systems:

a) General: The Westcoat Shur Deck, Shur Deck Pro, and Shur Deck Over Concrete walking deck and roof covering systems shall be installed in accordance with the manufacturer's published installation instructions, the applicable code, and this report. In the event of a conflict, the more restrictive governs.

The system shall be applied where an ambient and surface temperature range of 50°F to 90°F is available for 24 hours. Materials shall not be applied when subject to wet weather. Substrates and all coating surfaces shall be structurally sound, clean, and dry. The minimum finished deck slope shall be ¼ inch per 1 foot (2-percent slope).

b) Plywood Substrates: Plywood substrates shall comply with Section 4.2.3 (d) of this report. All edges shall be blocked. Face plies shall be perpendicular to the supports. The plywood shall be attached to all blocking and end bearing framing with countersunk wood screws, screw- or ring-shank nails equivalent to 8d common nails, spaced 4 inches maximum, on center at sheet perimeters and 8 inches maximum, on center in the field. The plywood shall be installed at a maximum span of 16 inches on center. The plywood shall be dry, clean, and free of any foreign material such as oil, dust, grease, or paint.

c) Optional: WP-40 Sheet Membrane: The WP-40 Sheet Membrane, complying with Section 4.1.2 (e) of this report, may be applied over all plywood joints in 6-. 36-inch-wide strips may be applied over the entire plywood deck.

d) Glass Lath: The WP-30 Westcoat Glass Lath complying with Section 4.1.2 (g) of this report is applied perpendicular to plywood sheets. Glass Lath shall be installed over a metal flashing, stopping at least 1 inch from any deck edge or vertical juncture in the Shur Deck System and 2 inches in the Shur Deck Pro System. The lath seams shall be staggered a minimum of 2 inches from plywood joints with lath sheet ends staggered a minimum of 12 inches from any adjacent sheets. Lath shall be lapped 1 to 2 inches at seams and stapled to the plywood every 1 to 2 inches. A minimum of 22 WP-10 Staples, complying with Section 4.1.2 (i) of this report, per square foot, are required to attach the lath to the plywood substrate. WP-10 staples shall be placed from the center of the lath to the outside edges so as not to form bulges. High staples and lath edges shall be driven flush. The WP-25 Metal Lath may be used in lieu of the WP-30 Westcoat Glass Lath only for the Westcoat Shur Deck and Shur Deck Pro System on plywood substrates.

e) Concrete Substrates: When applying the Westcoat Shur Deck Over Concrete system over a concrete substrate, the WP-30 Westcoat Glass Lath or WP-25 Metal Lath are not required. Concrete substrates shall comply with Section 4.1.2

(j) of this report. Concrete surfaces shall be prepared by water blasting, grinding, or shot blasting as required to produce a clean, sound substrate, equal to a minimum CSP 3. All holes shall be cleaned and filled with TC-11 Dry Polymer Basecoat Cement or an appropriate Westcoat Underlayment. All high spots shall be removed by chipping or grinding. Concrete control joints shall comply with local building codes and comply with industry standards.

f) Base Coat: The Base Coat is prepared by mixing 1 gallon of water with one bag of TC-11 Dry Polymer Basecoat Cement complying with Section 4.1.2 (a) of this report. The mixture shall be troweled over the horizontal glass lath surface at a rate of 30 ft² per mix, to a minimum 1/8-inch thickness over plywood and lath, and all-metal and plywood shall be completely covered, and surfaces shall be flat. When using the WP-25 Metal Lath complying with Section 4.2.3 (b), coverage to the surface shall be 40-45 ft² per mix. The Base Coat is brushed smoothly onto flashing and all vertical surfaces while applying the Base Coat to the horizontal surface. For concrete substrates, the Base Coat should be applied at 80-90 ft² per mix. The minimum thickness shall be 1/16-inch. Prior to proceeding with the next layer, the base coat shall be allowed to cure firm. Applications in elevated humidity conditions will require additional drying time.

3.5.2 Shur Deck Pro and Shur Deck over Concrete Systems: As an option, to transition from Shur Deck to Shur Deck Pro and Shur Deck over Concrete, items (g) and (h) complying with Section 3.5.2 of this report are required to be applied over the dry Base Coat.

g) Waterproofing Membrane with Fabric Reinforcement (Flashing): WP-95 Waterproofing Membrane, complying with Section 4.1.2 (b) of this report, shall be applied onto vertical and adjacent horizontal surfaces using a brush or roller at a rate of 50 ft² per gallon. Immediately after the WP-95 has been applied and while the material is still wet, the WP-45 Flashing Fabric complying with Section 4.1.2 (d) of this report shall be installed fuzzy side down into the wet WP-95 material, overlapping successive runs of fabric edges and ends a minimum of 2 inches. Care is taken to ensure that the burlap is fitted tightly in corners and around protrusions. Additional WP-95 shall be applied as necessary over the burlap fabric to ensure positive waterproofing and that the burlap is completely covered. No dry or fabric material spots shall be visible, and the fabric shall be completely flat and without wrinkles. The waterproofing membrane shall be a total of at least 20 mils Dry Film Thickness.

h) Waterproofing Membrane with Fabric Reinforcement (Deck): WP-48 Tri-Directional Fiberlath, complying with Section 4.1.2 (c) of this report, shall be applied to the horizontal substrate. The WP-48 is rolled out, cut to size, and laid "curl side" down over the Base Coat. Overlap successive runs of WP-48 edges and ends a minimum of 2 inches. The WP-95 Waterproofing Membrane,



complying with Section 4.1.2 (b) of this report, is poured onto the WP-48 Tri-Directional Fiberlath and applied ensuring complete coverage of the WP-48 Tri-Directional Fiberlath. The coverage rate of the WP-95 material in this application is 60-65 ft² per gallon. Additional WP-95 shall be applied as necessary over areas to ensure positive waterproofing (no pinholes). An additional coat of the WP-95 Waterproofing Membrane material shall be applied over the entire surface at a rate of 140 to 150 ft² per gallon. The membrane shall dry a minimum of 24 hours or until dry enough to walk on without leaving impressions. Applications in elevated or high humidity conditions will require additional dry time. The waterproofing membrane shall be a total of at least 20 mils Dry Film Thickness.

3.5.3 Shur Deck System: The Shur Deck System shall follow the installation requirements in accordance with Section 3.5 of this report):

i) Body Coat: The Body Coat is a two-coat application and is prepared by mixing 1 gallon of water with each bag of TC-11 Dry Polymer Basecoat Cement complying with Section 4.1.2 (a) of this report. The first coat is brushed onto vertical areas and then troweled across the entire deck surface at a rate of 80 to 90 ft² per mix, and the second coat is applied at the same rate (80-90 ft² per mix). A minimum cure time of 2 hours between coats is required. The minimum total thickness of the Body Coat is 1/8 inch. The Body Coat shall dry for a minimum of 2 hours at 70°F, 50 percent relative humidity. The surface may then be sanded to produce the desired level of finish. All dust and debris shall be removed.

j) Texture Coat: An optional Texture Coat is prepared by mixing 1 gallon of water with each bag of TC-11 Dry Polymer Basecoat Cement complying with Section 4.1.2 (a) of this report. The Texture Coat is applied to the surface at a rate of 100-150 ft² per bag, for a minimum 1/16-inch thickness. The Texture Coat shall dry for a minimum of 2 hours drying time at 70°F, 50 percent relative humidity, and then the surface may be sanded to produce the desired level of finish. All dust and debris shall be removed.

k) Topcoat: The SC-10 Acrylic Topcoat complying with Section 4.1.2 (f) of this report shall be sprayed or rolled in two coats. The first coat shall be applied at the rate of 300 to 350 ft² per gallon and allowed to dry for 2 hours at 70°F, 50 percent relative humidity. Then a second coat of the SC-10 Acrylic Topcoat shall be applied perpendicular to the first at the rate of 300 to 350 ft² per gallon. The SC-10 Acrylic Topcoat shall be allowed 6 to 8 hours to dry before returning to light service and 24 hours for normal service (70°F, 50 percent relative humidity). For small areas or in locations with cool temperatures, one coat of the SC-10 may be applied at 150 to 175 ft² per gallon.

3.5.4 Westcoat Mer-Ko System

a) General: The Westcoat Mer-Ko walking deck and roof covering system shall be installed in accordance with the

manufacturer's published installation instructions, the applicable code, and this report. In the event of a conflict, the more restrictive governs.

The system shall be applied where an ambient and surface temperature range of 55°F to 90°F is available for 24 hours. Materials shall not be applied when subject to wet weather. Substrates and all coating surfaces shall be structurally sound, clean, and dry. The minimum finished deck slope shall be 1/4-inch per foot (2-percent slope).

b) Plywood: Plywood substrates shall comply with Section 4.3.2 (j) of this report. All edges shall be blocked. Face plies shall be perpendicular to the supports. The plywood shall be attached to all blocking and end bearing framing with countersunk wood screws, screw- or ring-shank nails equivalent to 8d common nails, spaced 4 inches maximum, on center at sheet perimeters and 8 inches maximum, on center in the field. The plywood shall be dry, clean, and free of any foreign material such as oil, dust, grease, or paint. Cracks in the plywood and all plywood joints should be filled by mixing 1.75 to 2 gallons of WP-89 Liquid Emulsion described in Section 4.3.2 (d) of this report with one bag of TC-14 Fine Deck Cement complying with Section 4.3.2 (e) of this report. The mixture shall then be applied and stricken flush before drying.

c) Concrete: Concrete substrates shall comply with Section 4.2.2 (m) of this report. Concrete surfaces shall be prepared using a power sprayer, grinder, or shot blast as required to produce a clean, sound substrate. All holes and joints shall be cleaned and filled with WP-53 Hybrid Sealant complying with Section 4.3.2 (c) of this report and tooled. A minimum 24 hours drying time at 70°F, and 50 percent relative humidity shall be observed before continuing with the application of the slip sheet.

d) Slip Sheet: WP-49 Mer-Ko Slip Sheet, complying with Section 4.3.2 (b) of this report, shall be applied over the entire deck maintaining a 2-inch distance from all vertical surfaces, parapets, drain openings, etc. The slip sheet edges shall lap a minimum of 2 inches, and end-of-roll terminations shall be staggered. A 1/4 inch bead of WP-53 Hybrid Sealant, complying with Section 4.3.2 (c) of this report, shall be used to bond-slip sheet overlaps, the slip sheet to the deck perimeter, and the slip sheet at intermediate locations to limit the non-bonded area to a maximum of 4,000 ft². A minimum 24 hours drying time at 70°F, 50 percent relative humidity shall be observed before continuing with the installation of the primer coat.

e) Skim Coat: The Skim Coat is prepared by mixing one bag of TC-14 Fine Deck Cement complying with Section 4.3.2 (e) of this report, with 1.5 to 2 gallons of WP-89 Liquid Emulsion complying with Section 4.3.2 (d) of this report. The Skim Coat is applied by trowel over the entire horizontal substrate and adjacent flashing surfaces where bonding will occur, to a minimum 1/32-inch thickness. A minimum two hours drying time at 70°F, 50 percent relative



humidity shall be observed before continuing with the application of the waterproof membrane. Minor surface imperfections shall be treated by scraping and or sanding. All dust and debris shall be removed.

f) Waterproofing Membrane with Fabric Reinforcement (Flashing): A coat of WP-95 Waterproofing Membrane, complying with Section 4.3.2 (a) of this report, shall be applied onto vertical and adjacent horizontal surfaces using a brush or roller at a rate of 50 ft² per gallon. Immediately after the WP-95 has been applied and while the material is still wet, the WP-45 Flashing Fabric complying with Section 4.3.2 (h) of this report shall be installed fuzzy side down into the wet WP-95, overlapping successive runs of fabric edges and ends a minimum of 2 inches. Care is taken to ensure that the burlap is fitted tightly in corners and around protrusions. Additional WP-95 Waterproofing Membrane material is applied as necessary over the burlap fabric to ensure positive waterproofing (no pinholes) and that the burlap is completely covered. No dry or fabric material spots shall be visible and the fabric shall be completely flat and without wrinkles.

g) Waterproofing Membrane with Fabric Reinforcement (Deck): The WP-48 Tri-Directional Fiberlath, complying with Section 4.3.2 (f) of this report, shall be applied to the horizontal surfaces. The WP-48 is rolled out, cut to size, and laid “curl side” down over the Base Coat. Successive runs of WP-48 edges and ends shall be overlapped a minimum of 2 inches. The WP-95 Waterproofing Membrane liquid, complying with Section 4.3.2 (a) of this report, shall be poured onto the WP-48 Tri-Directional Fiberlath and trowel smooth ensuring complete coverage of the WP-48 Tri-Directional Fiberlath. The coverage rate of the WP-95 in this application is 45-50 ft² per gallon. Additional WP-95 Waterproofing Membrane liquid is applied as necessary over areas to ensure positive waterproofing (no pinholes). An additional coat of the WP-95 Waterproofing Membrane liquid is applied over the entire surface at a rate of 130 to 140 ft² per gallon by trowel or roller. The membrane shall dry for a minimum of 24 hours or until dry enough to walk on without leaving impressions. Applications in elevated or high humidity conditions will require additional dry time. The waterproofing membrane shall be a total of at least 20 mils Dry Film Thickness.

h) Body Coat: The Body Coat is a two-coat application and is prepared by mixing 1 to 1.25 gallons of WP-89 Liquid Emulsion complying with Section 4.3.2 (d) of this report to one bag of TC-13 Coarse Deck Cement complying with Section 4.3.2 (h) of this report. The first coat is troweled across the dry membrane at a rate of 80 to 90 ft² per mix, and the second coat is applied at the same rate (80-90 ft² per mix). A minimum cure time of 2 hours between coats is required. The minimum total thickness of the Body Coat is 1/8 inch. The Body Coat shall dry for a minimum of 4 hours at 70°F, 50 percent relative humidity. Minor surface imperfections

shall be removed by lightly scraping or sanding. All dust and debris shall be removed.

i) Smoothing Coat: The Smoothing Coat is a mixture of 1.5 to 2 gallons of WP-89 Liquid Emulsion, complying with Section 4.2.2 (e) of this report, to one 40 lb. bag of TC-14 Fine Deck Cement, complying with Section 4.3.2 (e) of this report. The mixture is applied over all vertical and horizontal surfaces at a rate of 150-200 ft² per mix, producing a minimum 1/32-inch thickness. Optionally, for texture or an extra smooth surface, a second coat is applied. The first coat needs to dry a minimum of two hours before proceeding with any second application. The final coat shall dry a minimum of 24 hours at 70°F, 50 percent relative humidity, and then the surface may be sanded to produce the desired level of finish. All dust and debris shall be removed.

j) Topcoat: Two coats of the SC-10 Acrylic Topcoat, complying with Section 4.3.2 (i) of this report, shall be applied by a roller at the rate of 300 to 350 ft² per gallon. After allowing the first coat to dry a minimum of 2 hours at 70°F, 50 percent relative humidity, the second coat of SC-10 shall be applied perpendicular to the first coat. Allow 6 to 8 hours to dry before returning to light service, 24 hours for normal service. For small areas or in locations with cool temperatures, one coat of the SC-10 may be applied at 150 to 175 ft² per gallon.

4.0 PRODUCT DESCRIPTION

4.1 Westcoat Shur Deck Standard (Over Concrete)

4.1.1 General: Westcoat Shur Deck walking deck and roof covering system is an elastomeric, multi-layer protective coating system for use over concrete. The system consists of reinforcing metal lath, cementitious filler, reinforced latex waterproofing membrane, and acrylic sealer.

4.1.2 Components:

a) TC-11 Dry Polymer Basecoat Cement: The TC-11 is a blend of cement, sand, and polymers, delivered in 50-pound bags. The shelf life is one year maximum when stored in unopened bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

b) WP-95 Waterproofing Membrane: The WP-95 is an asphalt-modified latex elastomer liquid, delivered in 5-gallon pails. The shelf life is one year maximum when stored in unopened pails in dry locations out of direct sunlight at temperatures ranging from 40°F to 100.

c) WP-48 Tri-Directional Fiberlath: The fiberlath is delivered in rolls measuring 38 inches wide with a coverage of 475 square feet.

d) WP-45 Flashing Fabric: The WP-45 is delivered in rolls measuring 10 inches wide with coverage of 300 linear feet.



e) **WP-40 Sheet Membrane:** The WP-40 Sheet membrane is a self-adhering, nominally 40-mil-thick, reinforced modified bituminous membrane with a white-colored reflective topping applied to the top surface. The membrane is produced in 6-inch-wide- and 36-inch-wide-by-75-foot-long rolls.

f) **SC-10 Acrylic Topcoat :** The SC-10 is a pigmented acrylic liquid, delivered in 5-gallon pails. The shelf life is two years maximum when stored in unopened pails in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

g) **WP-30 Westcoat Glass Lath:** The WP-30 is delivered in rolls measuring 39 inches wide with a coverage rate of 490 sq. ft.

h) **WP-10 Staples:** The WP-10 shall comply with ASTM F1667 and shall have a minimum 5/8 inch leg, a minimum 1-inch crown, and be formed from hot-dip galvanized or electro-galvanized steel wire having a Class 1 coating weight in conformance with A641 or Types 302, 304, 305, or 316 stainless steel wire.

i) **Concrete:** Concrete shall comply with the IBC or IRC as normal-weight, with a minimum specified compressive strength, f'_c , of 3,000 psi.

j) **Permeability:** Shur Deck Over Concrete, Shur Deck Pro, or Shur Deck with full coverage of WP-40 has a water vapor permeance rating of 0.1 perm or less when tested in accordance with ASTM E96 Procedure A (Desiccant Method) at 73.4° F (23° C) and 50 percent relative humidity.

4.2 Westcoat Shur Deck and Westcoat Shur Deck Pro (Over Plywood)

4.2.1 **Westcoat Shur Deck:** Westcoat Shur Deck for use over plywood shall use the following components in addition to the applicable items listed in Sections 4.1.2 (a) through (h), except for the WP-95 Waterproofing Membrane, WP-48 Westcoat Lath and WP-45 Flashing Fabric listed in Section 4.1.2 (b), Section 4.1.2 (c), and Sections 4.1.2 (d), respectively. Westcoat Shur Deck has the option to use TC-12 and WP-25 as listed in Section 4.2.3 (a) and Section 4.2.3 (b) of this report.

4.2.2 **Westcoat Shur Deck Pro:** Westcoat Shur Deck Pro for use over plywood shall use the following components in addition to the applicable items listed in Sections 4.1.2 (a) through (h). Westcoat Shur Deck Pro has the option to use TC-12 and WP-25 as listed in Section 4.2.3 (a) and Section 4.2.3 (b) of this report.

4.2.3 Components:

a) **Optional: TC-12 Shur Deck Fine Cement:** The TC-12 has the same shelf life as the TC-11, but with a fine texture finish.

b) **Optional WP-25 Metal Lath:** The Metal lath shall be 2.5 pounds per square yard, in accordance with ASTM C847. The lath is delivered in sheets measuring 27 inches wide by 97 inches long.

c) **Plywood:** Plywood, with an exterior bond classification, conforming to DOC PS-1 or DOC PS-2, shall be a minimum of 5/8 inch thick.

4.3 Westcoat Mer-Ko System

4.3.1 **General:** The Westcoat Mer-Ko walking deck and roof covering system is an elastomeric, multi-layer protective coating system for use over plywood or concrete substrates. The consists of a sealant, slip sheet, skim coat, waterproofing membrane, fabric, body coat, smoothing coat, and topcoat.

4.3.2 Components:

a) **WP-95 Waterproofing Membrane:** The WP-95 is an asphalt-modified latex elastomer liquid, delivered in 5-gallon pails. The shelf life is one year maximum when stored in unopened pails in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

b) **WP-49 Mer-Ko Slip Sheet:** The WP-49 is a heavy-weight fibrous mat coated with SBS-modified asphalt delivered in rolls with a coverage of 216 square feet.

c) **WP-53 Hybrid Sealant:** The WP-53 is a synthetic copolymer rubber-high solids adhesive delivered in 10-ounce cartridges and 20-ounce sausages. The shelf life is one year maximum when stored in unopened tubes in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

d) **WP-89 Liquid Emulsion:** The WP-89 is an elastomeric latex polymer liquid, delivered in 5-gallon pails. The shelf life is two years maximum when stored in unopened pails in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

e) **TC-14 Fine Deck Cement:** The TC-14 is a blend of Portland cement and sand delivered in 40-pound bags. The shelf life is one year maximum when stored in unopened bags in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

f) **WP-48 Tri-Directional Fiberlath:** The fiberlath is delivered in rolls measuring 38 inches wide with a coverage of 475 square feet.

g) **WP-45 Flashing Fabric :** The WP-45 is delivered in rolls measuring 10 inches wide with coverage of 300 linear feet.

h) **TC-13 Coarse Deck Cement:** The TC-13 is a blend of Portland cement and sand, delivered in 50-pound bags. The shelf life is one year maximum when stored in unopened bags



in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

i) SC-10 Acrylic Topcoat : The SC-10 is a pigmented acrylic liquid, delivered in 5-gallon pails. The shelf life is two years maximum when stored in unopened pails in dry locations out of direct sunlight at temperatures ranging from 40°F to 100°F.

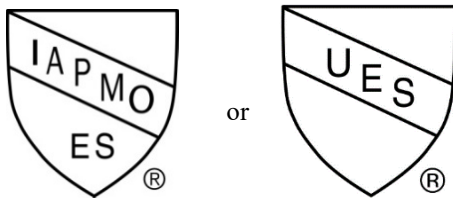
j) Plywood: Plywood, with an exterior bond classification, conforming to DOC PS-1 or DOC PS-2, shall be a minimum of 5/8 inch thick.

k) Concrete: Concrete shall comply with the IBC or IRC as normal-weight, with a minimum specified compressive strength, f'_c , of 3,000 psi.

l) Permeability: Mer-Ko System has a water vapor permeance rating of 0.1 perm or less when tested in accordance with ASTM E96 Procedure A (Desiccant Method) at 73.4° F (23° C) and 50 percent relative humidity.

5.0 IDENTIFICATION

Product packaging shall include the company name or trademark, product name or model number, and the IAPMO UES Evaluation Report Number (IAPMO UES ER-517) to identify the products recognized in this report. Either IAPMO UES Mark of Conformity may also be used as shown below:



IAPMO UES ER-517

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Walking Decks (AC39) approved June 2017, editorially revised November 2020.

6.2 Reports of testing for compliance with the Standard Test Methods for Water Vapor Transmission of Materials in accordance with ASTM E96.

6.3 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on the Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko walking deck and roof covering systems, with the Westcoat by Westcoat label, to assess conformance to the codes and standards shown in Section 1.0 of this report and documents the product's certification. Products are manufactured at locations noted in Section 2.5 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



CALIFORNIA SUPPLEMENT

WESTCOAT

4007 Lockridge Street

San Diego, CA 92102

(844)-537-7203

www.Westcoat.com

WESTCOAT SHUR DECK, SHUR DECK PRO, AND MER-KO SYSTEMS

CSI Sections:

07 18 13 Pedestrian Traffic Coatings

07 50 00 Membrane Roofing

1.0 RECOGNITION

The Westcoat Shur Deck, Shur Deck Pro, and Mer-Ko Systems described in IAPMO UES ER-517 and in this report supplement have been evaluated for use as walking deck and roof covering systems. The durability, impact resistance, weather resistance, wind uplift resistance, roof fire classification, and fire-resistance-rating properties of the Westcoat Shur Deck, Shur Deck Pro, and Mer-Ko Systems were evaluated for compliance with the following codes:

- 2022 California Building Code (CBC)
- 2022 California Residential Code (CRC)

2.0 LIMITATIONS

Use of The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems recognized in this supplement are subject to the following limitations:

2.1 For use under 2022 CBC and 2022 CRC, the Mer-Ko Systems shall comply with the provisions applicable to the 2021 IBC or 2021 IRC in IAPMO UES ER-517.

2.2 The Westcoat Shur Deck, Shur Deck Pro, and Mer-Ko Systems may be used as Class A roof covering systems in accordance with Sections 1505.2 of the CBC or R902.1 of the CRC.

2.3 Only the Westcoat Shur Deck and Shur Deck Pro Systems have been evaluated for use in buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area in accordance with Chapter 7A of the CBC or Section R337 of the CRC. The Westcoat Shur Deck and Shur Deck Pro Systems comply with the requirements when tested in accordance with ASTM E2632 and ASTM E2726.

2.4 This supplement expires concurrently with IAPMO UES ER-517.

For additional information about this evaluation report please visit

www.uniform-es.org or email us at info@uniform-es.org



CITY OF LOS ANGELES SUPPLEMENT

WESTCOAT
4007 Lockridge Street
San Diego, CA 92102
(844)-537-7203

WESTCOAT SHUR DECK, SHUR DECK PRO, SHUR DECK OVER CONCRETE AND MER-KO SYSTEMS

CSI Sections:

- 07 18 13 Pedestrian Traffic Coatings
- 07 50 00 Membrane Roofing

1.0 RECOGNITION

The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems described in IAPMO UES ER-517, the California Supplement to IAPMO UES ER-517, and this supplemental report have been evaluated for use as walking deck and roof covering systems. The durability, impact resistance, weather resistance, wind uplift resistance, roof fire classification, and fire-resistance-rating properties of the Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems were evaluated for compliance with the following codes:

- 2023 City of Los Angeles Building Code (LABC)
- 2023 City of Los Angeles Residential Code (LARC)

2.0 LIMITATIONS

Use of The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems recognized in this supplement are subject to the following limitations:

2.1 The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems shall comply with the provisions in the California Supplement applicable to the 2022 CBC for use under the 2023 LABC.

2.2 The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems may be used as Class A roof covering systems in accordance with Sections 1505.2 of the 2023 LABC or R902.1 of the 2023 LARC.

2.3 The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems shall be installed on slopes not less than ¼ inch per foot (2-percent slope).

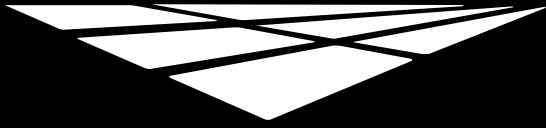
2.4 The supporting structure shall be designed to support the loads and is beyond the scope of this report.

2.5 The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems shall have a minimum substrate of 5/8-inch-thick exterior-grade plywood.

2.6 The Westcoat Shur Deck, Shur Deck Pro, Shur Deck Over Concrete, and Mer-Ko Systems shall comply with the LADBS Information Bulletin P/BC 2020-016 (Dwellings in High Wind Velocity Areas (HWA)).

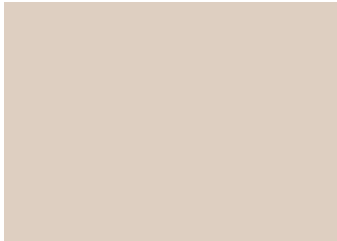
2.7 This supplement expires concurrently with IAPMO UES ER-517.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

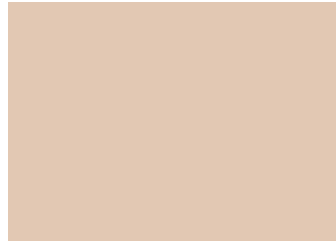


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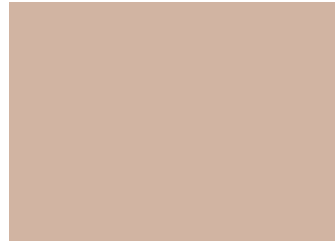
COLOR CHART



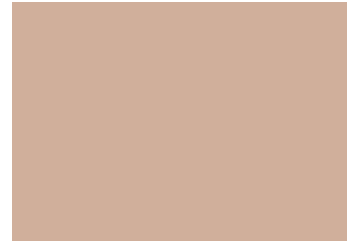
Porcelain | 75



Travatan | 40



Arizona Tan | 82



Sandy Beige | 78



Sand | 11



Omaha Tan | 53



Spanish Brown | 43



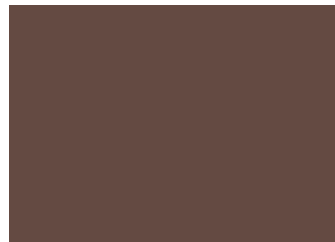
Deep Tan | 27



Cashew | 79



Rosewood | 77



Espresso | 74



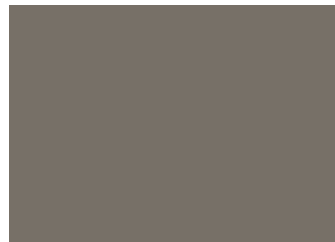
Mission Red | 76



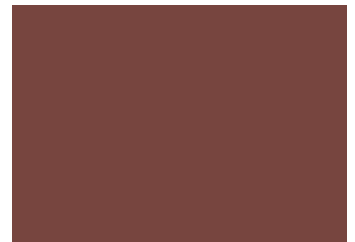
Concrete Gray | 52



Rocky Nook | 26



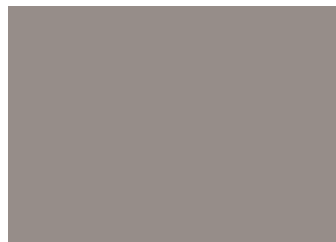
Pewter Gray | 12



Tile Red | 34



Cape Cod Gray | 41



Anchor Gray | 80



Stone Gray | 42



Slate Blue | 14

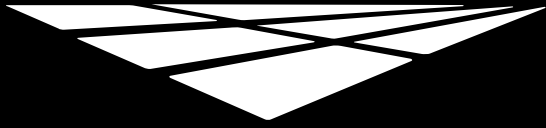
Black and White also available. See SC-10 Topcoat color chart online for more information, colors and lead time.



CAUTION:

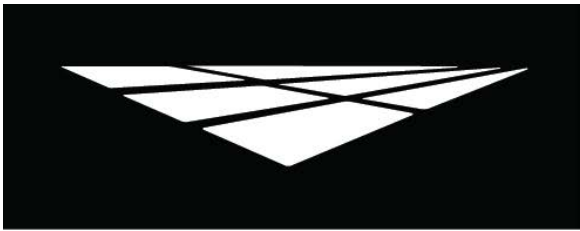
Color will vary between products and sheens. This chart is for reference only. Please request an actual color sample or apply sample on site before beginning any project.





westcoat®

SAMPLE WARRANTY



WARRANTY

MER-KO SYSTEM MATERIAL WARRANTY

Project Address

QCA Contractor/ Applicator

Subject to the conditions, limitations and requirements set forth below, Westcoat warrants the Mer-ko materials to be free of defects in the material for a period of five (5) years from the date of original purchase of the materials provided that the materials are installed by a factory trained state-licensed contractor and subject to all terms and conditions set forth below. Westcoat disclaims any warranty for the labor or installation of the Mer-ko materials.

If the Mer-ko materials fail due to defects within the warranty period, Westcoat, in its sole discretion, will either provide replacement materials for the defective Mer-ko materials or reimburse the original purchaser in an amount not to exceed the original cost of the materials. Westcoat shall in no way be responsible or liable for any labor costs or any incidental or consequential damages, including without limitation, economic losses, lost profits, business interruption, loss of use, contribution, indemnity or other losses arising from the use of the Mer-ko materials.

This warranty is limited to the original purchases and is non-transferable. This warranty is void if the Mer-ko materials are: applied to the top of OSB; not properly maintained; not installed pursuant to the current system information sheet; and/or applied at any area that is not built in accordance with applicable building codes. The warranty is also void if all of the materials are not purchased from an authorized distributor of Westcoat.

This warranty does not apply to and Westcoat has no responsibility or liability for: (1) the condition or movement of the substrate; (2) parts, products, or accessories not sold by Westcoat such as sheet metal flashings, scuppers and drains; (3) the loss of gloss, fading or cleaning; (4) repairs and/or maintenance of the sealer and texture coat (5) the application of its materials over an oriented strand board ("OSB") substrate; (6) abuse or misuse of the materials; or (7) improper installation.

THIS MATERIAL WARRANTY AND THE REMEDIES PROVIDED HEREUNDER ARE EXCLUSIVE AND GIVEN IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY). THERE ARE NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, THAT EXTEND BEYOND THAT SPECIFICALLY DESCRIBED HEREIN. PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURERS OF WESTCOAT, INCLUDING CLAIMS BASED UPON THE MANUFACTURER'S NEGLIGENCE OR STRICT LIABILITY, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE WEATHER DECK MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL WEATHER DECK MATERIAL.

The Westcoat Mer-ko system requires a maintenance topcoat with WESTCOAT ACRYLIC TOPCOAT as specified every three to five years (depending on ultraviolet exposure and/or traffic) as determined by a licensed contractor or design professional. Inspections are required one year after installation and every two years thereafter by a licensed contractor or design professional. The record of the inspection must be kept in writing and entitlement to the benefits of this warranty require the purchaser to show proof of purchase of the materials and the record of inspection(s).

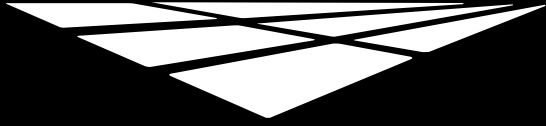
All claims arising from any defect in the Mer-ko materials or under this Warranty shall be made, in writing, to Westcoat within ninety (90) days of the discovery of the alleged defect and within the time period of this warranty. Upon notification, Westcoat shall have the right to inspect and determine course of repair. The absence of a written claim within this time period shall constitute a waiver of all claims, rights and damages against Westcoat, and its affiliates. This warranty shall not toll or extend any statute of limitation applicable to a claim of negligence, breach of contract or strict liability against Westcoat.

Any and all disputes, claims or damages arising out of the use of Mer-ko materials or this Warranty shall be arbitrated in the County of San Diego, State of California, utilizing the services of a neutral dispute resolution service upon which the purchaser and Westcoat agree, or if they cannot agree, utilizing the services of the American Arbitration Association. The purchaser and Westcoat hereby waive any right they may have to have a jury decide any dispute.



westcoat

4007 Lockridge Street San Diego, CA 92102
800 • 250 • 4519 • Fax 619 • 262 • 8606 • westcoat.com



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GENERAL MAINTENANCE



EXTERIOR COATINGS

Westcoat exterior coating systems (including such systems as: ALX, ALX Pro, MACoat, Texture-Crete, etc.) offer durable, high-performance, long lasting surfaces, that are designed to provide years of service against normal wear and usage. To extend the service life of your Westcoat system, it is recommended to implement a routine cleaning regimen and have periodic deck inspections. This information is a basic guideline only.

Routine Cleaning

All coating systems require maintenance and upkeep to ensure continued performance and to maximize the life of the system. Maintenance methods may vary depending on the system, texture, topcoat or sealer, environment conditions, slope, drainage, volume and type of traffic, and use of space.

Ensure that the coating surface is free from debris, such as sand, gravel, metals, or other abrasives that can result in premature wear of the topcoat or sealer. Grease, oils, and other contaminants should be removed regularly to maintain the surface.

Be sure to test all cleaning agents in an unnoticeable area to ensure compatibility. Refer to the manufacturer's instructions and dilution rates for all cleaning agents. Routine cleaning can be achieved by using a mild cleaning solution, such as "Simple Green" or mild soap. Utilize a brush or broom to help agitate and loosen up dirt and debris. Ensure that the surface is rinsed with clean water thoroughly. Do not allow cleaning agents to dry on the surface.

A low psi pressure washer (do not exceed 1000 psi) equipped with fan tip, and/or a soft bristle, floor scrubber brush on a floor machine may be used to help aid in cleaning. Do not use metal-based or coarse brushes, as they may damage the surface.

To remove water stains from calcium or lime build up, 100 grain vinegar can be used. Start by diluting the vinegar, eight parts water to one part vinegar. If needed, you can use the vinegar diluted one to one with water. Avoid using neat or full strength 100 grain vinegar. Scrub the diluted vinegar mixture over the surface. Be sure to completely rinse any residue thoroughly with clean water. Avoid using vinegar mixture or any cleaner in direct sunlight, as direct sun may evaporate cleaning solution and may leave a film or residue on the surface.

Any information provided by Westcoat Specialty Coating Systems is for general purposes only. Nothing presented by Westcoat Specialty Coating Systems constitutes design advice or a recommendation specific to a particular situation. Westcoat Specialty Coating Systems directs you to consult with the appropriate qualified design professional to ensure any product or information meets the requirements for the specific intended use, and complies with all building plans, specifications, codes or regulations. Westcoat Specialty Coating Systems expressly and specifically disclaims responsibility for any damages arising from the use of any information, and each recipient of this information agrees that there is no express or implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, arising from any information provided by Westcoat Specialty Coating Systems.





EXTERIOR COATINGS

Maintenance and Inspections

All exterior coating systems should be periodically inspected and regularly maintained by a Westcoat Qualified Contractor Applicator (QCA). Inspections are required one year after installation and every two years thereafter by a factory authorized representative. After 3-5 years, a "reseal" (thorough cleaning and reapplication of Westcoat topcoat/sealer) may be required. Existing sealer or coating should be lightly abraded before application of topcoat or sealer. Some topcoats and sealers may require additional preparation, prior to recoating. Should damage occur, be sure to contact the original Westcoat applicator to inspect and repair the coating system immediately.

Best Practices

- Do not expose the coating surface to traffic, moisture or chemical agents until system is fully cured.
- Outdoor carpet or other matting materials are not recommended, as they may trap moisture, contribute to mildew, mold and may damage the topcoat or sealer.
- Potted plants and/or planter boxes should be elevated off the surface and moved monthly to allow the coating to dry properly. Planter drainage may cause staining due to fertilizers and growing mediums. Drip pans or saucers should be utilized.
- Outdoor furniture should have coasters or pads to prevent indentations and damage to the coating.
- If barbecues are to be used, it is recommended to place a protective pan down to prevent damage from hot grease or coals.
- Do not cut, slice, or puncture the coating system. This is especially true for all waterproofing systems, such as ALX, ALX Pro and MACoat.
- Avoid dragging bulky metal, concrete, or other types of objects over the surface.
- Fire pits are not recommended for use with Westcoat coating systems.
- Do not expose the coating system to solvents, harsh chemicals, or acids.
- Avoid subjecting the coating system to repeated heavy rolling loads.
- Tape or other adhesives should not be applied to finished surfaces.

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