



ER 587



ABOUT ALX

Experience unmatched strength, durability, and design with ALX™, Westcoat’s waterproof deck coating system. Formulated for plywood surfaces, the ALX system integrates acrylic resins and cement blends into a reinforced, galvanized metal lath. Transform a wood subfloor to a decorative concrete or epoxy finish with ALX Underlayment system - a blank slate for installing tile, epoxy or other decorative flooring options.



REBUFFS RAIN, SNOW + SPILLS.

- Extensive Testing and Certifications
- Provides Early Protection After Framing
- Low Maintenance
- Unlimited Decorative Options
- Cost Effective
- Exterior or Interior
- Solar Reflective Option is CRRC approved.



FOR PROFESSIONAL USE ONLY.





**IAPMO ER-587 • Class A and One Hour Fire Rated • City of LA Approval
Meets Wildland Urban Interface (W.U.I) Requirements**

THE SYSTEM

Westcoat ALX is a waterproof walking deck system that is reinforced with metal lath and installed with a series of three separate polymer-modified cementitious applications and sealed with Westcoat's SC-10 Acrylic Topcoat or clear sealer. The finished system weighs approximately 2½ lbs per square foot and is less than a 1/4" thick. ALX gives plywood the look and feel of concrete with a decorative appeal. This system can be installed with a custom finish for exterior or interior. ALX Interior transforms a plywood subfloor into a concrete like finish.

ALX with full Sheet Membrane and Custom Finish



Sheet Membrane Lath Base Coat Slurry Coat Grout Coat Custom Finish

PRO

What sets this version of the bonded system apart from our traditional ALX is an added layer of fiberlath reinforced membrane which guards against cracking on larger spans of unreinforced substrates. Like the ALX system, Pro can be installed with a standard or custom finish. Available with up to a 20 Year Warranty when installed per spec by a Westcoat qualified applicator.

ALX PRO Standard Finish

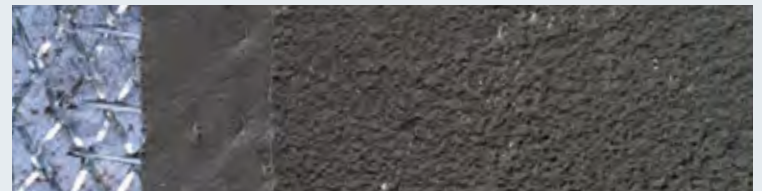


Sheet Membrane w/ Metal Lath Base Coat Fiberlath w/ Resin Membrane Slurry Coat Texture Coat Topcoat

WATERPROOFING UNDERLAYMENT

This process is for waterproofing plywood decks to receive tile, stone, or concrete as the finished look. Protect your plywood right after framing and allow for other trades to "traffic" during the construction process.

ALX UNDERLAYMENT



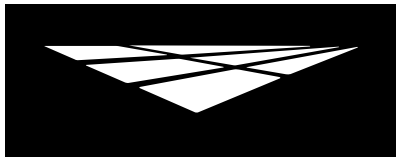
Sheet Membrane w/ Metal Lath Base Coat Slurry Coat



HAVE A QUESTION? GET IN TOUCH:

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WATERPROOF
RELIABLE MOISTURE BARRIERS

ALX™ Interior **Custom Finish**

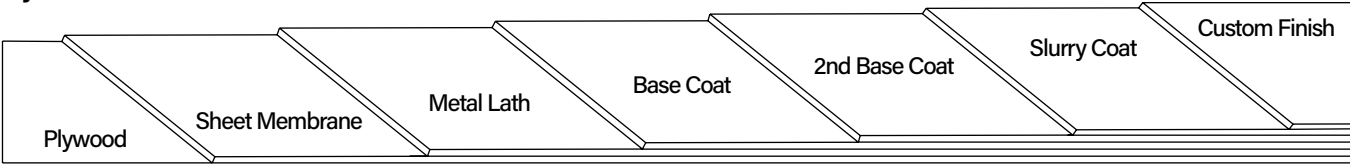
Description

The ALX™ Interior System is a series of polymer modified cementitious coatings that are bonded to plywood, with a variety of optional finishes and sealers. ALX™ Interior is a decorative topping designed to resurface plain plywood subfloor into a decorative, durable, water resistant, concrete like finish.

Uses

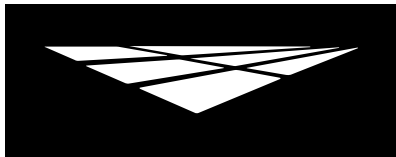
The ALX™ Interior System can be used on residential as well as commercial floors. ALX™ Interior is perfect for use in living areas, lobbies, offices, restaurants and hotels or wherever a thin, decorative and durable floor finish is desired over plywood.

System Overview



System Data							
Coverages	Base Coat 40 ft ² per batch	2nd Base Coat 150 ft ² per batch	Slurry Coat 200-250 ft ² per batch	Finish Coat 250-350 ft ² per batch	WB Stain 150-400 ft ² per gallon	EC-32 Sealer 200-500 ft ² per gallon	SC-65F Sealer 400-650 ft ² per gallon
Components	WP-25 Metal Lath WP-10 Staples WP-40 Sheet Membrane WP-82 Low Odor Cement Modifier TC-1 Basecoat Cement TC-2 Smooth Texture Cement TC-4 Fine Texture Cement TC-40 Liquid Colorant SC-35 Water-Based Stain EC-32 Clear Epoxy Topcoat SC-65F WB Flat Polyurethane Sealer			Shelf Life N/A N/A 1 year 2 years 1 year 1 year 1 year 1 year 3 years 2 years 1 year			
<p>Note: System components may vary, depending on desired result. See "Optional Materials" at the end of this sheet.</p>							

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SPECIALTY COATING SYSTEMS

**SYSTEM
SPECIFICATION**

WP

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ALX™ Interior

Custom Finish

Advantages

Cost-effective • Minimal Downtime • Low Maintenance • Long Lasting • Optional Skid Resistance
• Unlimited Color Variations • Patterns • Can be Installed Solvent Free and low VOC • Typically under
¼ inch thick • May contribute to LEED credits

Inspection

For installation of the ALX™ Interior system, plywood must be minimum ¾ inch CDX or exterior grade. The plywood substrate shall be tongue and groove, properly 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.

Preparation

Be sure the surface is clean, dry and free of grease, paint, oil, dust or any foreign material that may prevent proper adhesion. "Dry" plywood is typically defined as having less than a 10% moisture reading or by showing no moisture with a plastic sheeting test. Applicator is responsible for ensuring that the substrate is acceptable for application. Do not apply to wet plywood.

Sheet Membrane

Westcoat requires the installation of 6 inch WP-40 Sheet Membrane to all plywood seams for reinforcement. WP-40 can be installed to the entire floor when maximum protection is required. See Sheet Membrane Product Specification Sheet.

Metal Lath

Place the WP-25 Metal Lath on the plywood and cut it to fit the area, making sure the edge of the lath is offset two inches from any parallel plywood seams. The lath should run across the grain of the plywood (across the long seams) when possible. The lath has a grain and it should be placed so that it curves down at the edge of the floor. The lath should be butted at the wall. With the lath in place, start in the center working your way out, stapling the lath using 16-20 staples per square foot (minimum 1 inch crown x 5/8 inch long, 16-gauge non-corrosive Senco P10). Overlap the lath 1-2 inches and staple every 1-2 inches along the seam. With a hammer, pound down any seams or staples that are higher than the lath.

Base Coats

For a base coat over the metal lath, pour 1 gallon of WP-82 Cement Modifier and add up to two quarts of water in a clean mixing bucket and add 1 bag of TC-1 Basecoat Cement. Mix until uniform with a mechanical mixer at a low rpm. Pour the mixture (4½ gallons total) onto the lath and with trowel on edge, smooth to the top of the lath at the rate of 40 square feet per batch. Use a paintbrush to spread the base coat on the edges, ensuring the mixture coats all corners.

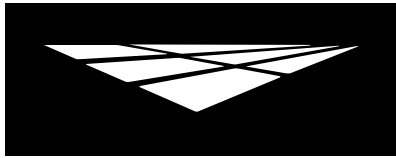
A second coat must be applied by combining one gallon of WP-82 Cement Modifier and up to ½ gallon of water with one bag of TC-1 Basecoat Cement. Mix until uniform with a mechanical mixer at a low rpm. Trowel over the first basecoat at a rate of 150 square feet per batch. As soon as it is dry, usually 2 to 3 hours at 70 degrees, scrape off any high spots or ridges that may prevent a smooth slurry coat.

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Slurry Coat

Create the slurry coat by combining 1 gallon of WP-82 Cement Modifier and up to ½ gallon of water in a clean mixing bucket then add 1 bag of TC-2 Smooth Texture Cement or TC-4 Fine Texture Cement. Mix until uniform with a mechanical mixer at a low rpm. Trowel the slurry mix over the surface to achieve a smooth finish. Apply the slurry coat, continuously keeping a “wet edge” and blend each new mix into the prior mix. After surface is dry, scrape or grind off any ridges or trowel marks. Coverage of the slurry coat is approximately 200 to 250 square feet per batch. You may sand before and after coats. A second slurry coat may be applied to create a more uniform surface.

Finish Coats

Combine one bag of TC-4 Fine Texture Cement with one gallon of WP-82 Cement Modifier and mix thoroughly with a mechanical mixer at a low rpm. Add ¾ to 1 gallon of water to achieve the desired consistency. Trowel the TC-4 as smooth or textured as desired. After the TC-4 has dried, lightly sand the surface with 120 grit or finer sand paper or sanding screen, to remove all trowel marks, if desired. Vacuum the entire area to remove all dust. Apply a second coat of TC-4 following the directions above. Coverage of the Finish Coat is approximately 250 to 350 square feet per batch.

WB Stain

Apply SC-35 using a pump sprayer, airless sprayer, HVLP sprayer, brush or broom. For a mottled effect, use water to pre-dampen the surface before or in conjunction with the stain. Multiple colors and various amounts of water may be applied at the same time for a variegated finish. SC-35 can be applied in multiple coats to achieve a solid color. Water-Based Stain can be thinned using water, up to equal parts. Thinning will affect the depth of color and may require extra coats.

The coverage will vary depending on the surface. Up to 400 square feet per gallon on a smooth surface and between 150-250 square feet on rough surfaces. Product performs best if applied in thin, even coats. When temperatures are above 80 degrees, it may be necessary to dampen the surface prior to application to prevent material from drying instantly.

Sealers

Mix 2 parts A and 1 part B (by volume) of EC-32 Clear Epoxy Topcoat. Mix completely for 4-5 minutes and immediately get the mix onto the floor. Apply EC-32 with a ⅜ inch, non-shedding, nap roller at 200-500 square feet per gallon. Coverage will vary greatly, depending on desired build. Do not allow material to sit in the mixing bucket. After the EC-32 has dried in about 8-10 hours, you may sand or scrape rough spots and apply a coat of SC-65F Water-Based Flat Polyurethane Sealer, for a low VOC, flat finish sealer (If the SC-65F can't be applied within 24 hours of the EC-32 application, then the EC-32 must be sanded and wiped with acetone, prior to application of the SC-65F).

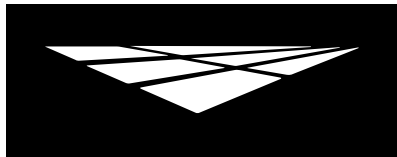
For SC-65F application, pre-mix each component separately. In a clean bucket, mix 3 parts A with 1 part B (by volume) of SC-65F Water-Based Flat Polyurethane Sealer. Mix thoroughly with a low speed (200-300 rpm) drill motor for 2-3 minutes. Make sure to scrape the sides and bottom of the container during mixing. Immediately after mixing, apply the SC-65F onto the substrate at the rate of 400-650 square feet per gallon. SC-65F can be sprayed or rolled. For best results, spray SC-65F neat, with an airless sprayer. SC-65F may be applied with a squeegee and back rolled with a ¼ to ⅜ inch, high-quality, non-shedding roller cover, being sure to maintain a wet edge. Alternatively, SC-65F can be applied with a dip and roll method, as desired.

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Custom Finish

Optional Materials

Cement Options

- TC-2 may be used in place of the TC-4 as a finish coat, for a one coat system with a slightly more aggressive texture.
- WP-81 may be used in place of WP-82, when low order is not necessary.
- TC-40 Liquid Colorant may be added to integrally color the cement in the finish coat.

Coloring Options

- For an optional method, use Westcoat SC-30 Acid Stain. Please read Product Specification Sheet prior to use.

Sealer Options

- EC-95G Gloss Polyurethane Topcoat or EC-95F Flat Polyurethane Topcoat may be installed over the EC-32 for the ultimate high build, mar and chemical resistant finish, where odor is not an issue.
- SC-65G WB Gloss Polyurethane Sealer can be applied over the EC-32 for a low odor, solvent free, mar and chemical resistant sealer.
- SC-65SG WB Semi-Gloss Polyurethane Sealer can be applied over the EC-32 for a low odor, solvent free, mar and chemical resistant sealer.
- EC-101 Polyaspartic 100% Solids may be used in lieu of the EC-32 as a high gloss, quick dry, high build, mar and chemical resistant finish.

Skid Resistance

- CA-29 Mini Safe Grip or CA-30 Safe Grip can be added to the final coat of sealer 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 or an environmentally-safe solvent. If cured, material can only be removed mechanically or with an environmentally-safe solvent.

Maintenance

Interior floors can be dust mopped daily or mopped using a neutral PH cleaner. For more information on floor care and maintenance, please refer to the General Maintenance sheet.

The ALX™ Interior System should be inspected for wear every 2 to 4 years. The system should be resealed with the appropriate Westcoat clear 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.

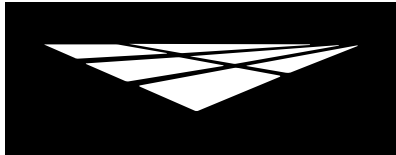
Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

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Limitations

- This system is designed for professional use only.
- 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.
- Sealers will make the surface slippery, please be aware 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.
- Use dustless equipment when possible.
- Light wheel and foot traffic only.
- Do not allow Westcoat products to freeze.
- 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.

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.

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SECTION 099726

CEMENTITIOUS COATINGS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Provide a complete acrylic modified cementitious waterproof system for 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. Section 030000 – Concrete
- B. Section 050000 – Metals
- C. Section 060000 – Wood, Plastic, and Composites
- D. Section 071813 – Pedestrian Traffic Coatings
- E. Section 080000 – Openings
- F. Section 090000 – Finishes
- G. Section 220000 – Plumbing

1.03 REFERENCES

- A. ICC ESR-2201. ALX over plywood meets ICC evaluation for Class A fire rating, durability, and wind resistance.
- B. ALX over plywood meets ASTM E119 for 1 hour fire test.
- C. ALX over plywood meets ASTM E108 for Class A fire rating.
- D. ESL-1098 ALX Standard and Custom Finishes with full coverage of WP-40 sheet membrane meets the requirements of a Class I Vapor Retarder per 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. Fax 619-255-7187. Website: www.westcoat.com.

2.02 MATERIALS

- A. As basis of design Westcoat ALX Interior System (no substitutions will be accepted): Waterproof walking deck system that is reinforced with metal lath and installed with a series of three separate polymer-modified cementitious applications, and sealed with acrylic topcoat.

2.03 COMPONENTS

- A. ALX Interior System: Waterproof system for use over plywood substrates, ICC ESR-2201.
 - 1. Sheet Membrane: WP-40 Sheet Membrane 6 inch by 75 feet for plywood seams, or 36 inch by 75 feet for complete plywood coverage.
 - 2. Metal Lath: WP-25 ALX Metal Lath 2.5 pounds per square yard hot dipped galvanized.
 - 3. Staples: Minimum 1 inch crown by $\frac{5}{8}$ inch long, 16 gauge non-corrosive WP-10 Staples or equal.
 - 4. Base Coats: Combine one 50 pound bag of TC-1 Base Coat Cement, 1 gallon of WP-82 Cement Modifier, and up to 2 quarts of water. Apply by trowel at 40 square feet per batch. A second coat must be applied by combining one gallon of WP-82 Cement Modifier and up to $\frac{1}{2}$ gallon of water with one bag of TC-1 Basecoat Cement.
 - 5. Slurry Coat: Combine one 50 pound bag of TC-2 Smooth Texture Cement OR TC-4 Fine Texture Cement, 1 gallon of WP-82 Cement Modifier, and up to $\frac{1}{2}$ gallon of water. Apply by trowel at 200-250 square feet per batch
 - 6. Finish Coats: Combine one 50 pound bag of TC-4 Smooth Texture Cement, 1 gallon of WP-82 Cement Modifier, and up to $\frac{3}{4}$ to 1 gallon of water. Apply at 250-350 square feet per batch. Apply a second coat of TC-4 following the directions above.
 - 7. WB Stain: Apply SC-35 using a pump sprayer, airless sprayer, HVLP sprayer, brush or broom at 150-400 square feet per gallon. SC-35 can be applied in multiple coats to achieve a solid color.
 - 8. First Topcoat: EC-32 Clear Epoxy Topcoat 200-500 square feet per gallon.
 - 9. Second Topcoat: SC-65F Water-Based Flat Polyurethane Sealer 400-650 square feet per gallon.

2.04 ACCESSORIES

- A. Supplemental Materials:
 - 1. TC-2 may be used in place of the TC-4 as a finish coat, for a one coat system with a slightly more aggressive texture.
 - 2. WP-81 may be used in place of WP-82, when low order is not necessary.
 - 3. TC-40 Liquid Colorant may be added to integrally color the cement in the finish coat.
 - 4. For an optional method, use Westcoat SC-30 Acid Stain. Please read Product Specification Sheet prior to use.
 - 5. CA-29 or CA-30 Safe Grip can be added to the final coat of sealer for additional skid resistance.
 - 6. Westcoat Slope Technique may be used when additional sloping is required. Slope Technique should be applied after the Base Coat, prior to the Slurry Coat.
- Optional Topcoats:
- 7. SC-65G WB Gloss Polyurethane may be used OVER the EC-32 when a low odor, solvent free, mar and chemical resistant gloss finish is required.
 - 8. SC-65SG Pigmented WB Semi-Gloss Polyurethane may be used OVER EC-32 when a low odor, solvent free, mar and chemical resistant semi-gloss finish is required.
 - 9. EC-95G Gloss Polyurethane Topcoat may be used OVER the EC-32 when a gloss, solvent-based polyurethane is required.
 - 10. EC-95F Flat Polyurethane Topcoat may be used OVER the EC-32 when a flat, solvent-based polyurethane is required.
 - 11. EC-101 Polyaspartic 100% Solids may be used IN LIEU of the EC-32 when a high gloss, quick dry, high build, mar and chemical resistant finish is required.

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 $\frac{1}{4}$ inch slope per linear 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 $\frac{5}{8}$ inch CDX exterior grade plywood.
 2. Plywood shall have a maximum joist span of 16 inches.
 3. Deflection should be less than $L/360$.

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 waterproof decking 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.



Applied over TC-4 Fine Texture Cement



Shale | 516



Armor | 514



Onyx | 509



Sienna | 513



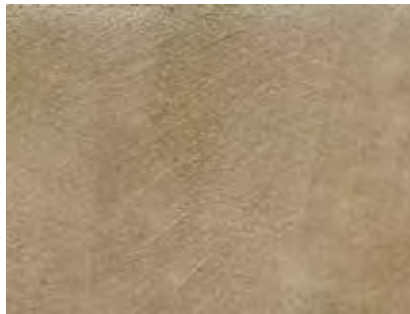
Copper | 508



Adobe | 515



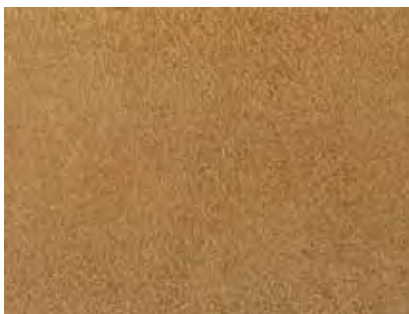
Sahara | 518



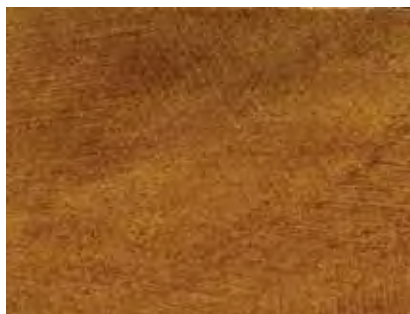
Umber | 521



Olive | 520



Camel | 505



Sepia | 511



Mahogany | 501

Not shown but also available in Ivory | 517



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.

