



westcoat
SPECIALTY COATING SYSTEMS

ALX

Experience unmatched strength, durability, and design with ALX, Westcoat's waterproof deck coating system. Formulated for plywood surfaces, the ALX system integrates the finest acrylic resins and cement blends into a reinforced, galvanized metal lath. ALX eliminates plywood seams and is ideal for use in heavy traffic areas. ALX Pro calls for an added fiberlath reinforced membrane. ALX Interior option provides a solution for transforming a wood subfloor to a decorative concrete or epoxy finish. ALX Under Tile system provides a blank slate for installing tile as it waterproofs your exterior deck over living space.



WATERPROOF
RELIABLE MOISTURE BARRIERS



westcoat

Rebuffs rain, snow, and spills.

Developed for plywood and concrete surfaces, our Waterproof Coat product line was created by some of the most experienced technicians in the industry and features the highest quality components for complete waterproof protection.

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F O R P R O F E S S I O N A L U S E O N L Y

ALX in Standard and Custom Finish

Westcoat ALX is a waterproof walking deck system. Reinforced with metal lath and installed with a series of three separate polymer-modified cementitious applications, then sealed with Westcoat's SC-10 Acrylic Topcoat or a clear sealer. The finished product weighs approximately 2½ lbs per square foot. This system 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 Testing

- Class A Fire Rating
- 1 hour Fire Test over 5/8" plywood substrate - ASTM E119
- ICC ESR 2201
- City of LA Approval RR 25986

ALX PRO in Standard and Custom Finish

What sets this 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.

ALX Under Tile

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

ALX with full Sheet Membrane and Custom Finish

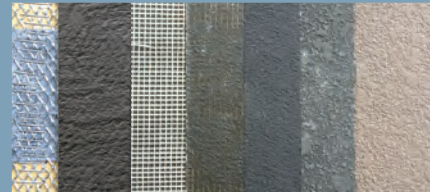


Sheet Membrane Lath Base Coat Slurry Coat Grout Coat Custom Finish

ALX Advantages

- Provides early protection after framing
- Mitigates plywood seam movement
- Environmentally-friendly process
- May contribute to LEED credits
- Exterior or interior

ALX PRO Standard Finish



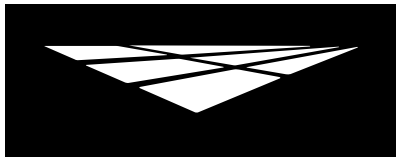
Sheet Membrane w/ Metal Lath Base Coat Fiberlath w/ Resin Membrane Slurry Coat Texture Coat Topcoat

ALX UT



Sheet Membrane w/ Metal Lath Base Coat Slurry Coat





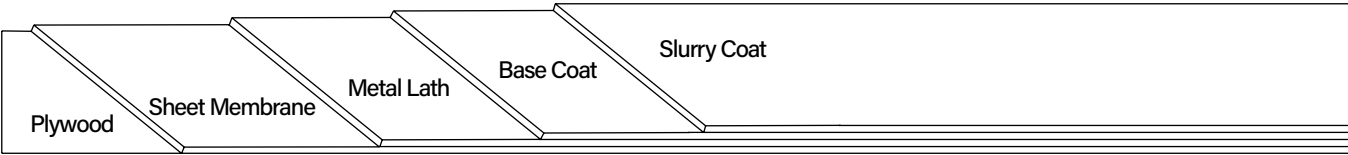
Description

ALX™ Waterproofing Underlayment is a process for waterproofing plywood decks to receive tile, stone or concrete. It is a metal lath reinforced system installed with a series of two separate polymer-modified cementitious applications and is bonded together with a specially formulated acrylic emulsion. The ALX™ Waterproofing Underlayment incorporates WP-40 Sheet Membrane under the lath as a back up waterproof membrane and reinforcement for plywood seams.

Uses

The ALX™ Waterproofing Underlayment system works only on plywood walking decks to receive tile, stone and can be used as an under slab method to receive concrete. It is recommended for the discriminating contractor or building owner who demands the ultimate in waterproofing and durability. ALX™ Waterproofing Underlayment has been designed for balconies, corridors, stairs and landings. It is regularly specified for hotels, condominiums, apartments and office buildings.

System Overview



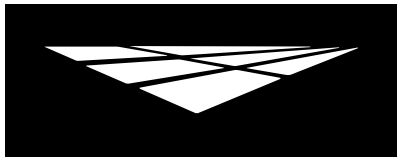
System Data

Coverages	Base Coat 40 ft² per batch	Slurry Coat 100-150 ft² per batch	
Components	WP-10 Staples		Shelf Life
	WP-47A Seam Tape		N/A
	WP-25 Metal Lath		1 year
	WP-40 Sheet Membrane		N/A
	WP-43 Sheet Membrane Primer		1 year
	WP-51 Polyurethane Sealant		1 year
	WP-81 Cement Modifier		1-2 years
	TC-1 Basecoat Cement		2 years
			1 year

Advantages

Unmatched Strength and Durability • Fast Access After Installation • Available Manufacturer's Warranty • Excellent Sound Reduction Qualities • Covers Rough Plywood and Seams • Optional Fiberlath Reinforcement • Cost Effective

DISCLAIMER: PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.



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**SYSTEM
SPECIFICATION**

WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

ALX™

**Waterproofing
Underlayment**

Inspection

Plywood must be a minimum of 1 inch thick or 2 sheets of at least 5/8 inch CDX or exterior grade plywood. The deck should be tongue and groove when possible, properly blocked and nailed (glued and screwed is best). Add blocking between studs at wall to allow WP-40 to cove up wall behind flashing.

Plywood shall have a maximum joist span of 12 inches. In general, deflection shall be minimized, as movement will crack tile and concrete. Slope must be a minimum of 1/4 inch per linear foot. The decks should meet local building codes. Deflection should be less than L/480. OSB is not recognized as a suitable substrate. 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

WP-40 Sheet Membrane is required on the entire deck for maximum protection. WP-40 may also be installed behind or on top of the flashing as a backup waterproofing measure. WP-40 may not be left exposed to the sun for more than seven days. See Sheet Membrane Product Specification Sheet.

Flashing

Westcoat requires a minimum of 26-gauge bonderized sheet metal. Use 6 x 4 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-51 Polyurethane Sealant to all seams. Nail flashing every 4-6 inches. (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).

Metal Lath

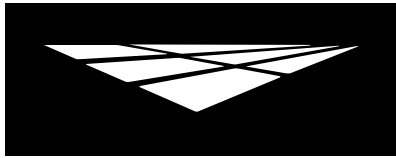
Prior to installing the Metal Lath, WP-47A Seam Tape should be applied 1/2 inch from all deck edges, leaving 1/2 inch of flashing exposed. Place the WP-25 Metal Lath on the plywood and cut it to fit the area, making sure the edge of the lath is offset two inches from any parallel plywood seams. The lath 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 deck. The metal lath should be held back 1.5 inches from all deck edges, leaving 1 inch of seam tape and 1/2 inch of flashing exposed. 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.

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ALX™ WU 5/20



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**SYSTEM
SPECIFICATION**

WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

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**Waterproofing
Underlayment**

Base Coat

Pour 1¼ gallons of WP-81 Cement Modifier and desired water (up to one quart) into a clean mixing bucket and then add one 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. Trowel and brush the base coat up to the seam tape edge, leaving ½ inch of flashing exposed. For best results, tape off the flashing. Use a paintbrush to spread the base coat into all corners. Tap the deck with a hammer to help in smoothing out trowel ridges. As soon as it is dry, usually 1 to 2 hours at 70 degrees, scrape off any high spots or ridges that may prevent a smooth slurry coat.

Slurry Coat

Create the slurry coat by adding one gallon of WP-81 Cement Modifier and up to ½ gallon of water into a clean mixing bucket and add one bag of TC-1 Basecoat Cement. Mix until uniform with a mechanical mixer at a low rpm. Trowel the slurry mix over the surface to achieve a smooth finish. Coverage of the slurry coat is between 100-150 square feet per batch. The Slurry Coat will be applied right up to all of the deck's edges. Using a brush, wet with water, feather all outside edges. After surface is dry (usually 30 minutes to 2 hours at 70 degrees), scrape or grind off any ridges or trowel marks.

Flood Test

Perform flood test with a minimum of 1 inch and a maximum of 3 inches of water for 24 hours. Drains should be plugged and barriers placed to contain the water.

Optional Materials

Additional Waterproofing

- WP Wrap can be used as a supplemental waterproofing system used to provide additional waterproofing with reinforcement, along the perimeter of decks, over flashing and other challenging areas.
- WP-47 Fiberlath can be used over sloped and built up areas or where maximum reinforcement is required. Slurry coat will be troweled directly into the WP-47. An additional slurry coat may be needed to hide the fiberlath.
- WP-90 can be used to laminate the WP-47 to surface at a rate of 75 to 100 square feet per gallon.

* See Product Specification sheets for detailed instructions

Clean Up

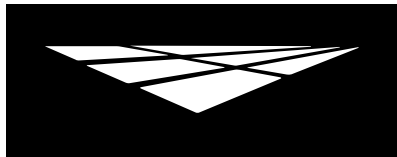
Uncured material can be removed with soap and warm water. If cured, material can be removed mechanically or with an environmentally-safe solvent.

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**SYSTEM
SPECIFICATION**

WP

WATERPROOF
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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.

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.
- Rain will wash away uncured Westcoat acrylic products.
- If inclement weather threatens, cover deck to protect new application.
- 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.

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SECTION 071813

PEDESTRIAN TRAFFIC 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 080000 – Openings
- E. Section 090000 – Finishes
- F. Section 220000 – Plumbing

1.03 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.

1.04 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.

1.05 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, 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.

1.06 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.

1.07 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 Waterproofing Underlayment System (no substitutions will be accepted): Waterproofing system for plywood decks to receive tile, stone, or concrete. A metal lath reinforced system installed with a series of two separate polymer-modified cementitious applications. ALX Waterproofing Underlayment incorporates WP-40 Sheet Membrane under the lath to create a waterproof membrane and provide reinforcement for plywood seams.

2.03 COMPONENTS

- A. ALX Waterproofing Underlayment System: Waterproof walking deck system for use over plywood substrates to receive tile, stone, or concrete.
 1. Sheet Membrane: WP-40 Sheet Membrane 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 Coat: Combine one 50 pound bag of TC-1 Base Coat Cement, 1¼ gallons of WP-81 Cement Modifier, and up to 1 quart of water. Apply by trowel at 40 square feet per batch.
5. Slurry Coat: Combine one 50 pound bag of TC-1 Base Coat Cement, 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. Apply by trowel at 100-150 square feet per batch.

2.04 ACCESSORIES

- A. Supplemental Materials:
 1. Flashing shall be minimum 26 gauge bonderized sheet metal. 6 inch by 4 inch at wall to deck juncture and 2 inch by 4 inch drip edge at outside perimeter of deck.
 2. Sealant shall be Westcoat WP-51 Polyurethane Sealant.
 3. Westcoat WP Wrap can be used to provide additional waterproofing with reinforcement, along the perimeter of decks, over flashing and other challenging areas.

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 contaminates that would prevent coating system from properly adhering to the surface.
 2. Verify that substrates have ¼ 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 1 inch CDX exterior grade plywood.
 2. Plywood shall have a maximum joist span of 12 inches.
 3. Deflection should be less than L/480 for under tile applications.

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.
- D. Perform flood test with a minimum of 1 inch and a maximum of 3 inches of water for 24 hours. Drains shall be plugged and barriers placed to contain water.

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.