

**westcoat®**

## SYSTEM SPECIFICATION

**WP**

**WATERPROOF**  
RELIABLE MOISTURE BARRIERS

**ALX™ Pro**

**Waterproofing Underlayment**

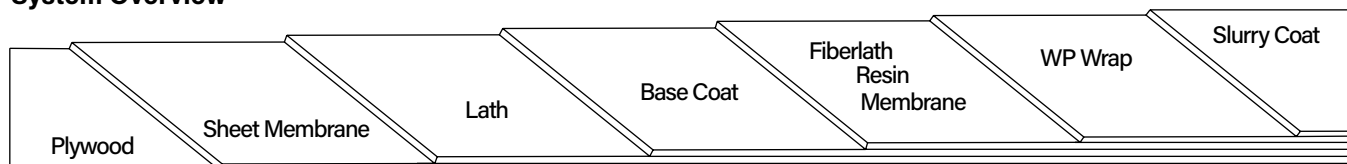
### Description

ALX™ Pro Waterproofing Underlayment is a process for waterproofing plywood decks to receive tile, stone or concrete. This bonded system contains a reinforcing lath, a fiberlath reinforced membrane and a series of polymer-modified cementitious applications. The ALX™ Pro Waterproofing Underlayment incorporates WP-40 Sheet Membrane under the lath as a back up waterproof membrane and reinforcement for plywood seams.

### Uses

The ALX™ Pro 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 architect, contractor or building owner that demands the greatest in strength and durability. ALX™ Pro Waterproofing Underlayment is ideal for decks with ten foot or larger spans and in cases where additional crack resistance and flexibility is essential. ALX™ Pro Waterproofing Underlayment has been designed for balconies, corridors and landings. It is regularly specified for hotels, condominiums, apartments and office buildings.

### System Overview



### System Data

| Coverages | Base Coat<br>40 ft²<br>per batch | Fiberlath Resin<br>Membrane<br>250 ft² per batch | WP Wrap<br>* See System Spec<br>for coverages | Slurry Coat<br>100-150 ft²<br>per batch |
|-----------|----------------------------------|--------------------------------------------------|-----------------------------------------------|-----------------------------------------|
|-----------|----------------------------------|--------------------------------------------------|-----------------------------------------------|-----------------------------------------|

#### Components

[WP-10 Staples](#)  
[WP-25 Metal Lath](#)  
 or  
[WP-30 Westcoat Glass Lath](#)  
[WP-40 Sheet Membrane](#)  
[WP-45 Flashing Fabric](#)  
[WP-47H Fiberlath Heavy Duty](#)  
[WP-53 Hybrid Sealant](#)  
[WP-81 Cement Modifier](#)  
[WP-90 Waterproofing Resin](#)  
[WP-95 Waterproofing Membrane](#)  
[TC-1 Basecoat Cement](#)

#### Shelf Life

N/A  
 N/A  
 5 years  
 1 year  
 N/A  
 5 years  
 12-18 months  
 2 years  
 2 years  
 1 year  
 1 year

ER-587



**Certifications** IAPMO ER-587

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### Advantages

Quick Access After Installation • Waterproof • Excellent Sound Reduction Qualities • Covers Rough Plywood and Seams • Unmatched Strength and Durability • Fiberlath Reinforced Membrane • Cost Effective • Available Manufacturer's Warranty

### Inspection

Plywood must be a minimum of 1 inch thick or 2 sheets of at least  $\frac{5}{8}$  inch CDX or exterior grade plywood. For applications over pressure-treated lumber, please contact your Westcoat Representative prior to application. 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  $\frac{1}{4}$  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 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. (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).

### Lath

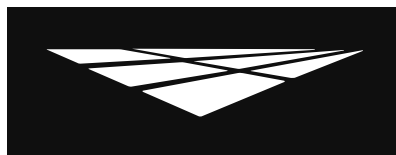
The ALX™ Pro Waterproofing Underlayment System can be installed with either WP-25 Metal Lath or WP-30 Westcoat Glass Lath. For maximum protection against corrosion, WP-30 is recommended. Place lath on the plywood and cut it to fit the area, making sure the edge of the lath is offset two inches from any parallel plywood seams. The lath should run across the grain of the plywood (across the long seams). If using WP-25, the metal lath should be placed so that it curves down at the edge of the deck. If using WP-30, unroll lath and place curl side down.

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Underlayment**

The lath should be held back 2 inches from all edges, leaving 2 inches of flashing exposed. At all wall-to-deck junctures, the metal lath should be held back ½ inch. This will allow the coating material to be feathered with a brush. 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 WP-10). Stainless steel staples should be used for maximum protection against corrosion. 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. When using WP-30, ensure that the lath is secured properly to the plywood. This is especially true at all overlaps and edges. It is recommended that the Base Coat be applied the same day as the lath installation.

**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 when using WP-25 or 30 square feet per batch when using the WP-30. Trowel and brush the base coat up to the edge of the lath, leaving 2 inches 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 70F degrees, scrape or use a rub brick to remove any high spots or ridges, before applying the Fiberlath Resin Membrane.

**Fiberlath Resin Membrane**

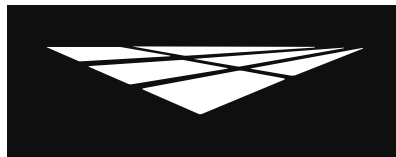
Lay out WP-47 Fiberlath reinforcing mesh on the deck, overlapping the seams approximately 2 inches. The Fiberlath should be held back ½ inch from all deck edges, leaving ½ inch of flashing exposed. Combine one bag of TC-1 Basecoat Coat Cement with five gallons of WP-90 Waterproofing Resin. Mix with a mechanical mixer until uniform. Pour the mixture into the WP-47, trowel thin and smooth at the coverage rate of approximately 250 square feet per batch, stopping at the Fiberlath edge, leaving ½ inch of flashing exposed. For best results, tape off flashing. Use a paintbrush to spread the base coat ensuring the mixture covers all seams and corners. Allow surface to dry for 1-4 hours at 70 degrees. Scrape off any high spots or ridges prior to application of the WP Wrap and Slurry Coat. Trim any mesh that is showing on perimeters after the material has hardened.

**WP Wrap**

All perimeter edge must be coated with Westcoat's WP Wrap. Apply a coat of WP-95 Waterproofing Membrane onto the vertical leg of the flashing and adjacent horizontal surface using a brush, trowel or roller at a rate of 100-150 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 WP-45 fabric is fitted tightly in corners and around protrusions. Apply an additional coat of WP-95 over the WP-45 at a rate of 40-60 square feet per gallon. No dry fabric spots should be visible and the fabric should be completely flat and without wrinkles. Apply additional WP-95 as necessary over any areas to ensure positive waterproofing. Do not exceed 30 wet mils per coat. Allow the final coat of WP-95 to dry completely (~4-6 hours at 77F degrees). The WP Wrap should be coated completely within 24-48 hours with the Slurry Coat.

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Underlayment****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. Use a paintbrush to spread the slurry coat onto the flashing, ensuring the mixture coats all corners. 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****Sheet Membrane**

- WP-43 Sheet Membrane Primer may be used when increased adhesion is desired.

**Cement Additives**

- CA-15 Cement Accelerator can be added to Westcoat cements to help reduce dry times.
- CA-16 Cement Decelerator can be added to Westcoat cements to increase working time during periods of hot weather.
- Westcoat Slope Technique may be used if additional sloping is required. Slope Technique should be applied after the Base Coat and prior to the Fiberlath Resin Membrane.

**Pedestal Paver Systems**

- When using the ALX Pro Waterproofing Underlayment System with a Pedestal Paver System, apply two coats of SC-65KSG WB Polyurethane over the dried Slurry Coat, at a rate of 300-400 square feet per coat. Allow the SC-65KSG to dry for a minimum 72 hours (@70F degrees and 50% humidity) before installing the Pedestal Paver System.

\* 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.

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|-----------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|
|  | <b>westcoat</b> <sup>®</sup>                    | <b>SYSTEM<br/>SPECIFICATION</b>                          |
| <b>WP</b>                                                                         | <b>WATERPROOF</b><br>RELIABLE MOISTURE BARRIERS | <b>ALX™ Pro</b><br><b>Waterproofing<br/>Underlayment</b> |

### 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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