westcoat®
SPECIALTY COATING SYSTEMS

SYSTEM SPECIFICATION

WP WATERPROOF
RELIABLE MOISTURE BARRIERS

ALX™ Pro

Waterproofing Underlayment

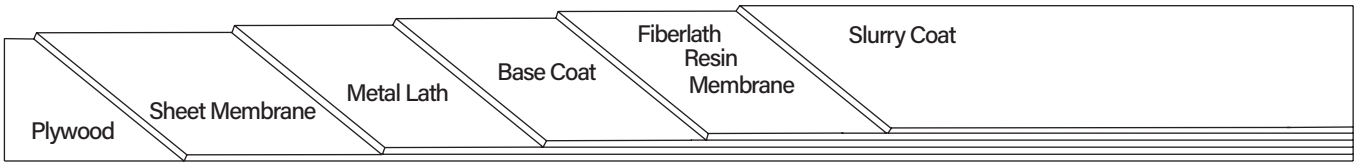
Description

ALX™ Pro Waterproofing Underlayment is a process for waterproofing plywood decks to receive tile, stone or concrete. This bonded system is reinforced with metal 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 Wateproofing 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** 40 ft² per batch	**Fiberlath Resin Membrane** 250 ft² per batch	**Slurry Coat** 100-150 ft² per batch

Components	**Shelf Life**
WP-10 Staples	N/A
WP-25 Metal Lath	N/A
WP-40 Sheet Membrane	1 year
WP-47H Fiberlath Heavy Duty	5 years
WP-51 Polyurethane Sealant	1-2 years
WP-81 Cement Modifier	2 years
WP-90 Waterproofing Resin	2 years
TC-1 Basecoat Cement	1 year

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

ALX™ Pro

Waterproofing Underlayment

Inspection
Plywood must be a minimum of 1 inch thick or 2 sheets of at least ⅝ 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 ¼ 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
Place the WP-25 Metal Lath on the plywood and cut it to fit the area ensuring 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 grain of the lath should be placed so that it curves down at the edge of the deck. The metal lath should be held back 2 inches from all deck edges, leaving 2 inches of flashing exposed. With the lath in place, start in the center working your way out. Staple the lath using 16-20 staples per square foot (minimum 1 inch crown x ⅝ 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, lightly pound down any seams or staples that are higher than the lath.

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 metal lath and with trowel on edge, smooth the mixture to the top of the lath at the rate of 40 square feet per batch. Trowel and brush the base coat up to the metal lath edge, 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 lightly 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, 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 Slurry Coat. Trim any mesh that is showing on perimeters after the material has hardened.

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
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.

Sloping
- 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.

* 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.

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.