

westcoat®

SYSTEM SPECIFICATION

WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

ALX™ Pro

Standard Finish

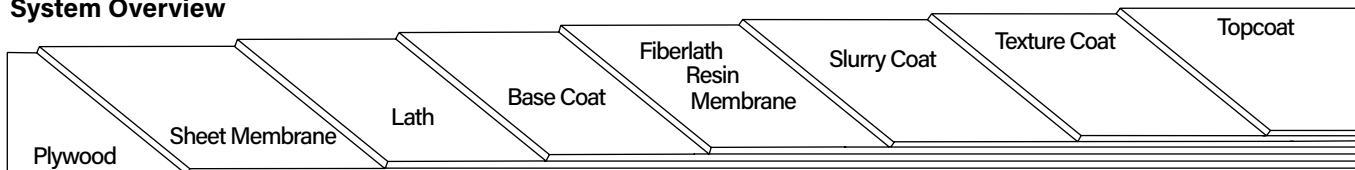
Description

Westcoat ALX™ Pro is a waterproof walking deck system. This bonded system contains a reinforcing lath, a fiberlath reinforced membrane, a series of polymer-modified cementitious applications and is sealed with Westcoat's SC-10 Acrylic Topcoat. The finished product weighs approximately 2½ lbs per square foot. This system gives plywood the look and feel of concrete with a decorative appeal.

Uses

ALX™ Pro is designed for use on plywood. It is recommended for the discriminating architect, contractor or building owner that demands the greatest in strength and durability. ALX™ Pro is ideal for decks with ten foot or larger spans and in cases where additional crack resistance and flexibility is essential. ALX™ Pro has been designed for balconies, corridors and landings. It is regularly specified for hotels, condominiums, apartments and office buildings. ALX™ Pro can be stapled through most old deck systems to provide an excellent method for the rehabilitation of problem surfaces.

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	Texture Coat 150-200 ft² per batch	Top Coat 200-300 ft² per gallon
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Components

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

Shelf Life

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

ER-587



Certifications

IAPMO ER-587
 Meets Class A Fire Test ASTM E-108
 Meets One-Hour Fire Rating ASTM E-119
 Meets Class I Vapor Retarder ASTM E96 (when WP-40 is installed over entire deck)
 Meets 2020 City of Los Angeles Building and Residential Code (LABC & LARC)
 Meets Wildland Urban Interface (W.U.I.) Requirements
 Meets the Requirements of Decking SFM 12-7A-4 Parts A & B

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Advantages

Quick Access After Installation • Waterproof • Excellent Sound Reduction Qualities • Tough Final Coat is UV Resistant • Covers Rough Plywood and Seams • Skid Resistant Finish • Decorative Finishes Available • Unmatched Strength and Durability • Fiberlath Reinforced Membrane • Cost Effective

Inspection

For installation of the ALX™ Pro system, plywood must be a minimum of 5/8 inch (3/4 inch preferred) CDX or exterior grade. For applications over pressure-treated lumber, please contact your Westcoat Representative prior to application. Slope must be a minimum of 1/4 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.

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.

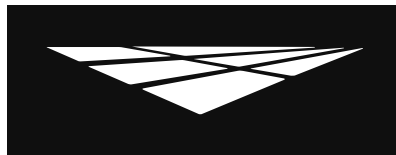
Sheet Membrane

Westcoat requires the installation of 6 inch WP-40 Sheet Membrane to all plywood seams for reinforcement. For maximum protection, WP-40 36 inch, can be applied to the entire deck. WP-40 may also be installed behind or on top of the flashing as a backup waterproofing measure. For increased adhesion, WP-43 Sheet Membrane Primer may be used prior to applying the Sheet Membrane. WP-40 may not be left exposed to the sun for more than 7 days. See WP-40 Sheet Membrane and WP-43 Sheet Membrane Primer Product Specification Sheets for additional information.

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).

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RELIABLE MOISTURE BARRIERS**ALX™ Pro****Standard Finish****Lath**

The ALX 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.

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

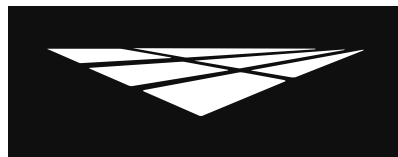
Lay out WP-47 Fiberlath reinforcing mesh on the deck, overlapping the seams approximately 2 inches. The Fiberlath should be held back ½ inch from all deck edges, leaving ½ inch of flashing exposed. Combine one bag of TC-1 Basecoat Cement with five gallons of WP-90 Waterproofing Resin. Mix with a mechanical 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.

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RELIABLE MOISTURE BARRIERS**ALX™ Pro****Standard Finish****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.

Texture Coat

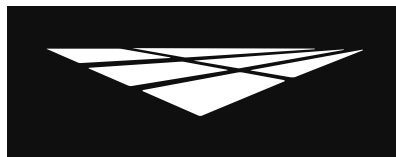
The Texture Coat can be achieved by using a variety of Westcoat cements. For a finer finish, TC-2 Smooth Texture Cement or TC-5 Grout Texture Cement can be utilized. For a coarser finish, TC-1 Basecoat Cement or TC-3 Medium Texture Cement can be utilized. After selecting the desired cement, pour one gallon of WP-81 Cement Modifier in a clean mixing bucket and add one bag of cement. Mix thoroughly with a mechanical mixer at a low rpm. Add up to ½ gallon of water to achieve the desired consistency. The Texture Coat can be troweled, sprayed or broomed over the Slurry Coat at a rate of 150 to 200 square feet per mix. After the texture has dried (30 minutes to 1 hour at 70F degrees), lightly scrape any trowel marks and vacuum the surface prior to sealing.

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 ¾ inch roller at a rate of 200-300 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 70 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 and allow 72 hours for vehicular traffic. Allow 5 days prior to any abrasion or chemical exposure.

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- WP-40 36 inch can be installed to the entire deck when maximum protection is required.
- WP-43 Sheet Membrane Primer may be used when increased adhesion is desired.

Cements

- For the Texture Coat, if a finer finish is required, TC-2 Smooth Texture Cement or TC-5 Grout Texture Cement can be used. For a coarser finish, TC-1 Basecoat Cement or TC-3 Medium Texture Cement can be used.

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.

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.

WP Wrap

- Westcoat's WP Wrap can be used with the ALX System to provide additional waterproofing with reinforcement, along the perimeter of the deck.

Deck Drain

- If a drain is required, Westcoat's WP-35 ALX™ Deck Drain may be installed between the Sheet Membrane and Metal Lath steps in the application instructions. Please read the WP-35 ALX™ Deck Drain Product Specification Sheet for detailed instructions.

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 Slurry Coat.

* 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 ALX™ Pro 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.

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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				Standard Finish	

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.
- 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.
- 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.

Test Data

Test	ALX™ Pro Standard WP-40 On Seams	ALX™ Pro Standard WP-40 Full Coverage
Accelerated Aging ASTM D-756	Pass	Pass
Fire-Retardant Roof Covering ASTM E-108	Class A	Class A
One-Hour Fire Test ASTM E-119	Pass	Pass
Fire-Test-Response of Deck Structures to Burning Brands ASTM 2726-12a	Pass	Pass
Under-Deck Fire Test Response of Deck Materials ASTM E2632	Pass	Pass
Water Vapor Transmission of Materials ASTM E96	--	Class I Vapor Retarder (0.1 perm or less)
Bond Strength (Control) ASTM C-297	143 psi	Pass
Bond Strength (Accel. Aging) ASTM-C297	Pass	Pass
Bond Strength (Freeze-Thaw) ASTM C-297	Pass	Pass
Abrasion ASTM D-1242	.023 inches	.023 inches
Water Absorption ASTM D-570	7.5%	7.5%
Chemical Resistance ASTM D-2299	Pass	Pass
Freeze-Thaw ASTM C-67	.5%	.5%
Concentrated Load AC-39 Section 4.12	Pass	Pass
Wind Uplift FM 1-52	Pass	Pass
Impact Resistance ASTM D-3746	Pass	Pass

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