



westcoat[®]
SPECIALTY COATING SYSTEMS

**SYSTEM
SPECIFICATION**

WP
WATERPROOF
RELIABLE MOISTURE BARRIERS

ALX™ Pro

Standard Finish

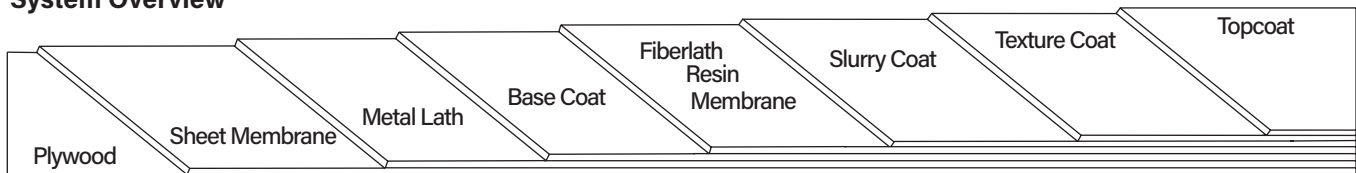
Description

Westcoat ALX™ Pro is a waterproof walking deck system. This bonded system is reinforced with metal 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
Components	WP-10 Staples			Shelf Life 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-81Cement Modifier			2 years	
	WP-90 Waterproofing Resin			2 years	
	SC-10 Acrylic Topcoat			2 years	
	TC-1 Basecoat Cement			1 year	
TC-3 Medium Texture Cement			1 year		
Certifications	ICC Evaluated ESR-2201 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)				

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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. 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.

Preparation

Be sure the surface is clean, dry and free of grease, paint, oil, dust or any foreign material that may prevent proper adhesion. Do not apply to wet plywood.

Plywood Seam Treatment

WP-40 6" Sheet Membrane must be applied to all plywood seams for reinforcement. 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 7 days. See Sheet Membrane Product Specification Sheet.

Flashing

Westcoat requires a minimum of 26-gauge bonderized sheet metal. Use 4 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 in a staggered pattern every 4-6 inches. (Note: If the flashing is not bonderized, it must be etched 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 lath should be held back 1/2 inch from all deck edges. 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. Staple 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, lightly pound down any seams or staples that are higher than the lath.

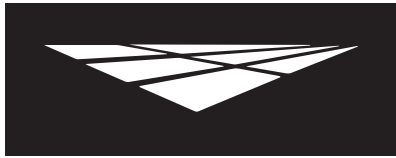
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Base Coat

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 the mixture to the top of the lath at the rate of 40 square feet per batch. Use a paintbrush to spread the base coat onto the flashing, ensuring the mixture coats all corners. Using a brush wet with water, feather all outside edges. 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 that may prevent a smooth slurry coat.

Fiberlath Resin Membrane

Lay out WP-47 Fiberlath reinforcing mesh on the deck, overlapping the seams approximately 2 inches. 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. Use a paintbrush to spread the base coat on the flashing, ensuring the mixture covers all seams and corners. Using a brush, wet with water, feather all outside edges. Allow surface to dry for 1-4 hours at 70 degrees. Scrape off any high spots or ridges that may inhibit application of a smooth texture 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. 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

Pour one gallon of WP-81 Cement Modifier in a clean mixing bucket and add one bag of TC-3 Medium Texture Cement. Mix thoroughly with a mechanical mixer at a low rpm. Add up to ½ gallon of water to achieve the desired consistency. Using an acoustical hopper gun, spray the texture onto the deck with a circular motion to achieve approximately 70% coverage at a rate of about 150 to 200 square feet per batch. Spray continuously, do not stop in the middle of the deck. After a few moments depending on the temperature, the texture must be "knocked down". Use a rounded pool trowel for best results. Wipe the trowel clean with a wet rag as needed. For an Orange Peel Texture, increase the air pressure and reduce the hole size on the hopper gun. Spray texture evenly at an 80% to 90% coverage rate. If you are unsatisfied with the results, immediately scrape off and re-spray. After the texture has dried (30 minutes to 1 hour at 70 degrees), lightly scrape any trowel marks and vacuum the surface prior to sealing.

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Topcoat

Mix all containers of SC-10 Acrylic Topcoat to ensure a consistent color. The material may be thinned by adding up to a maximum of one quart of water per gallon to avoid streaks (especially in hot weather). Roll two thin applications of SC-10 using a ½ to 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 small areas or in locations with cool temperatures, one coat of SC-10 may be applied at 125 square feet per gallon. For best results, allow SC-10 4-6 hours of drying time at 70 degrees before permitting light pedestrian traffic or applying additional coats. Allow 24 hours to cure before heavy traffic is permitted. Allow 48 hours before heavy objects are placed on the surface.

Optional Materials

Sheet Membrane

- WP-40 36 inch can be installed to the entire deck when maximum protection is required.

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 Reinforced Cement Resin 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 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.
- 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.

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
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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