

**westcoat**<sup>®</sup>  
SPECIALTY COATING SYSTEMS

**SYSTEM  
SPECIFICATION**

**WP** **WATERPROOF**  
RELIABLE MOISTURE BARRIERS

**ALX™**

**Custom Finish**

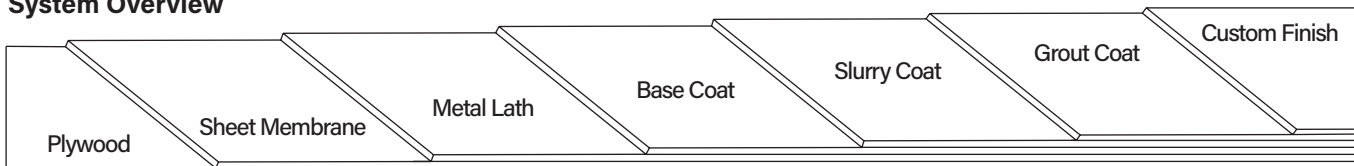
**Description**


ALX™ Custom Finish is a waterproof walking deck system. It is reinforced with metal lath and is installed with a series of four to five separate polymer-modified cementitious applications and sealed with one of Westcoat's clear sealers. The finished product weighs approximately 2½ lbs per square foot. The ALX™ Custom Finish gives plywood the look and feel of slate, flagstone or tile.

**Uses**

The ALX™ Custom Finish is designed for use on plywood. It is recommended for the discriminating architect, contractor or building owner that demands the finest in design, strength and durability. The ALX™ Custom Finish is ideal for areas with heavy traffic or in cases where elimination of plywood seams is essential. The ALX™ Custom Finish has been designed for balconies, corridors, stairs and landings. It is regularly specified for hotels, condominiums, apartments and office buildings. The ALX™ Custom Finish can be stapled through most old deck systems to provide an excellent method for the rehabilitation of problem surfaces.

**System Overview**



System Data						
<b>Coverages</b>	<b>Base Coat</b> 40 ft <sup>2</sup> per batch	<b>Slurry Coat</b> 100-150 ft <sup>2</sup> per batch	<b>Grout Coat</b> 100-150 ft <sup>2</sup> per batch	<b>Texture Coat</b> 150-200 ft <sup>2</sup> per batch	<b>WB Stain</b> 150-400 ft <sup>2</sup> per gallon	<b>Sealer</b> 200-300 ft <sup>2</sup> per gallon
<b>Components</b>	WP-10 Staples WP-25 Metal Lath WP-40 Sheet Membrane WP-51 Polyurethane Sealant WP-81 Cement Modifier TC-1 Basecoat Cement TC-5 Grout Texture Cement TC-2 Smooth Texture Cement TC-40 Liquid Colorant SC-35 Water-Based Stain SC-70 Acrylic Lacquer Sealer			<b>Shelf Life</b>		
<b>Certifications</b>	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) City of LA Approval RR 25986					

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### Advantages

Fast Access After Installation • Available Manufacturer's Warranty • Excellent Sound Reduction Qualities  
• Tough Final Coat is UV Resistant • Covers Rough Plywood and Seams • Skid Resistant Textured Finish  
• Decorative Finishes Available • Unmatched Strength and Durability

### Inspection

For installation of the ALX™ Custom Finish system, plywood must be minimum  $\frac{5}{8}$  inch ( $\frac{3}{4}$  inch preferred) CDX or exterior grade. Slope must be a minimum of  $\frac{1}{4}$  inch per linear foot and shall provide for proper drainage. Decks should meet local building codes. The deck shall be tongue and groove, properly 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.

### Sheet Membrane

Westcoat requires the installation of 6 inch WP-40 Sheet Membrane 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 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

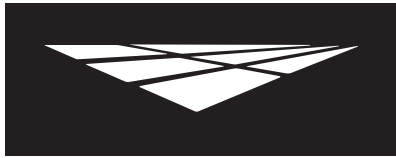
Place the WP-25 Metal Lath on the plywood and cut it to fit the area making sure the edge of the lath is offset two inches from any parallel plywood seams. The lath should run across the grain of the plywood (across the long seams) when possible. The lath has a grain and it should be placed so that it curves down at the edge of the deck. The lath should be held back  $\frac{1}{2}$  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, stapling the lath using 16-20 staples per square foot (minimum 1 inch crown x  $\frac{5}{8}$  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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### **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. 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 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. 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.

### **Grout Coat**

Pour 1 gallon of WP-81 Cement Modifier and up to ½ gallon of water in a clean mixing bucket and then add the TC-5 Grout Texture Cement and TC-40 Liquid Colorant of choice. Mix thoroughly with a low rpm drill motor. Coverage of the slurry coat is between 150-200 square feet per batch. For best results, allow slurry to dry overnight, prior to pattern installation.

### **Pattern Installation (Optional)**

For a flagstone look, peel the CA-50 Stone Strips and apply to the grout coat in a simulated flagstone pattern. Take time to lay out the pattern and inspect for consistency prior to application of the texture coat. If the pattern is not desirable, remove and apply new Stone Strips.

Tile patterns can be achieved by applying CA-60 Grout Tape in a tile pattern. The tile size and the grout line size can be varied from job to job, to give each installation a custom look. The best way to achieve a straight line is to pre-measure tile size and mark your lines using a chalk box with white chalk. Place your Grout Tape on the outside edge of the chalk line, so the chalk line will be covered by the texture.

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### **Texture Skip Trowel**

Pour one gallon of WP-81 Cement Modifier in a clean mixing bucket and add one bag of TC-2 Smooth Texture Cement. Mix thoroughly with a low rpm drill motor. Add desired TC-40 Liquid Colorant to the mix. Be sure to carefully rinse the container to remove all the colorant. Add up to ½ gallon of water to achieve the desired consistency. Make sure to use the exact same amount of water and colorant for each mix and combine completely to maintain consistent color and texture.

Pour the mix onto the surface to be textured. Using a skip trowel method, trowel the area with a rounded pool trowel. Wipe the trowel clean with a wet rag as needed. Trowel consistently and continuously, being sure to keep a wet edge. Make sure to trowel the entire surface the same way throughout the project. Coverage of the texture coat is between 150-200 square feet per batch. If you are unsatisfied with the results, scrape off immediately and re-apply.

After the texture has hardened enough to walk on, scrape and/or slightly sand the surface to even out the look and feel of the texture. A floor buffer with 80-100 grit sand paper is helpful for large areas. Be careful to sand or buff consistently and not to damage the texture. Sweep and wash off the excess cement dust and debris. If a taped pattern was installed using Grout Tape or Stone Strips, you may elect to remove them before you proceed to coloring options. Vacuum up the excess cement dust and debris.

### **WB Stain**

Apply SC-35 using a pump sprayer, airless sprayer, HVLP sprayer, brush or broom. For a mottled effect, use water to pre-dampen the surface before or in conjunction with the stain. Multiple colors and various amounts of water may be applied at the same time for a variegated finish. SC-35 can be applied in multiple coats to achieve a solid color. Water-Based Stain can be thinned using water, up to equal parts. Thinning will affect the depth of color and may require extra coats.

The coverage will vary depending on the surface. Up to 400 square feet per gallon on a smooth surface and between 150-250 square feet on rough surfaces. Product performs best if applied in thin, even coats. When temperatures are above 80 degrees, it may be necessary to dampen the surface prior to application, to prevent material from drying instantly.

### **Sealer**

Apply SC-70 Acrylic Lacquer Sealer by spraying, brushing or rolling with a ½ to ¾ inch nap, non-shedding roller cover at the rate of 200-300 square feet per gallon. If rolled, neatly cut-in all edges with a brush and roll the center using a ½ inch to ¾ inch nap, good quality roller cover. Be sure to spread evenly in a "V" pattern, rolling in both directions. Roll product as thin as possible. If spraying, use Hudson type sprayer after thinning. Thin SC-70 with up to 25% Westcoat CA-23 for better absorption, increased coverage, longer working time or when spraying.

For added slip resistance, add up to 1 quart of CA-30 Safe Grip per 5 gallons of sealer. Silica sand may be broadcast when extra traction is needed. Quantities may vary. See Product Specification Sheets detailed instructions on these products.

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### 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 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™ 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.

### Limitations

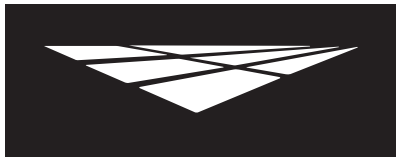
- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Do not apply at temperatures below 50°F or above 90°F.
- Rain will wash away uncured Westcoat acrylic products.
- If inclement weather threatens, 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.

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**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™ Custom WP-40 On Seams	ALX™ Custom 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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