westcoat®

SYSTEM SPECIFICATION

WP WATERPROOF
RELIABLE MOISTURE BARRIERS

ALX™ Pro Solar Reflective Finish

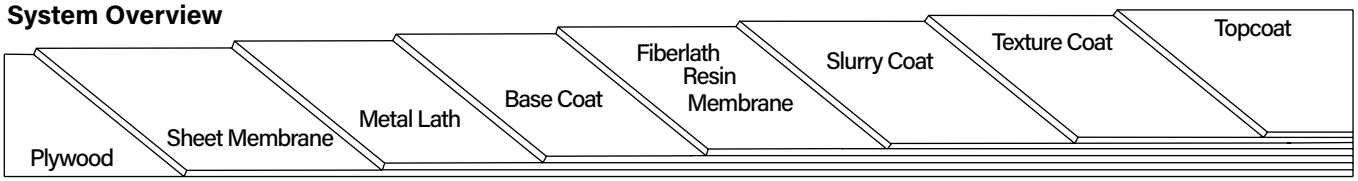
Description

Westcoat ALX™ Pro Solar Reflective Finish system is a waterproof walking deck system that also meets the Cool Roof requirements of California Title 24*. This bonded system is reinforced with metal lath, a fiberlath reinforced membrane, a series of white polymer-modified cementitious applications and is sealed with Westcoat's Solar Reflective series of SC-10 Acrylic Topcoats, that utilize infrared (IR) pigments. The finished product weighs approximately 2½ lbs per square foot. This system gives plywood the look and feel of concrete with a decorative appeal and also reduces the Urban Heat Island Effect and can lower the surface temperature.

Uses

The ALX™ Pro Solar Reflective Finish system is suitable for commercial and residential environments. Some uses include balconies, corridors and landings. It is regularly specified for hotels, condominiums, apartments and office buildings.

System Overview



System Data

Coverages	Base Coat	Fiberlath Resin Membrane	Slurry Coat	Texture Coat	Top Coat
	40 ft² per batch	250 ft² per batch	100-150 ft² per batch	150-300 ft² per batch	200-400 ft² per gallon

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-53 Hybrid Sealant	12-18 months
	WP-81 Cement Modifier	2 years
	WP-90 Waterproofing Resin	2 years
	SC-10 Solar Reflective Acrylic Topcoat	2 years
	TC-1W White Basecoat Cement	1 year
	TC-2 Smooth Texture Cement	1 year

ER-587 IAPMO ES

CRRC COOL ROOF RATING COUNCIL RATED PRODUCT

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 Wildland Urban Interface (W.U.I) Requirements
Meets the Requirements of Decking SFM 12-7A-4 Parts A & B
Meets 2020 City of Los Angeles Building and Residential Code (LABC & LARC)
CRRC Product ID# 1316-0001: Solar Reflective Finish SC-10-SR Gray
CRRC Product ID# 1316-0002: Solar Reflective Finish SC-10-SR Tan

Advantages
Meets California Title 24 Requirements* ▪ Helps Reduce the Urban Heat Island Effect ▪ Lowers the Surface Temperature ▪ 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 ▪ Available Manufacturer's Warranty

Inspection
For installation of the ALX™ Pro system, plywood must be a minimum of ⅝ inch (¾ 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 ¼ 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).

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-1W White 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. 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-1W White 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-1W White 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
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 mechanical mixer at a low rpm. Add up to ½ gallon of water to achieve the desired consistency. Texture can be sprayed, troweled or broomed at a rate of about 150 to 300 square feet per batch. 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.

Topcoat
Do not apply if rain is forecast within 48 hours or heavy dew within 24 hours. If multiple batches of SC-10 SR 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 homogenous mixture and color is obtained. Roll two thin applications of SC-10 SR using a ⅜ inch to ¾ inch roller at a rate of 200-400 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 the SC-10 SR 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.

Optional Materials
Sheet Membrane
- 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.

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 Solar Reflective 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 Solar Reflective Finish System should be inspected for wear every 2 to 4 years. The system should be resealed with the appropriate Westcoat SC-10 SR Series Topcoat 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.
- 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.

ALX™ Pro Solar Reflective Finish

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
Solar Reflectance - Initial	Gray: 0.69 | Tan: 0.74	Gray: 0.69 | Tan: 0.74
Thermal Emittance - Initial	Gray: 0.86 | Tan: 0.89	Gray: 0.86 | Tan: 0.89
SRI (Solar Reflectance Index) - Initial	Gray: 84 | Tan: 91	Gray: 84 | Tan: 91

** SC-10 Solar Reflective Acrylic Topcoat is rated to meet the Cool Requirements of California Title 24 when the colors SR Tan or SR Gray are used. Other colors are not rated at this time.*

SR Series Color	SRI Value
Butterscotch	84 **
Canvas	84 **
Coconut	71 **
Coral	66 **
Heather Gray	63 **
Lime	78 **
Powder Blue	77 **
Salmon	72 **
Seaside	73 **
SR Gray	84 *
SR Tan	91 *
Wintermint	79 **

* Third-party test data. CRRC Prod. ID# 1316-0001 (SR Gray) & 1316-0002 (SR Tan)
** In-House test data