

westcoat[®]

SYSTEM SPECIFICATION

WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

MACoat™ Custom Finish

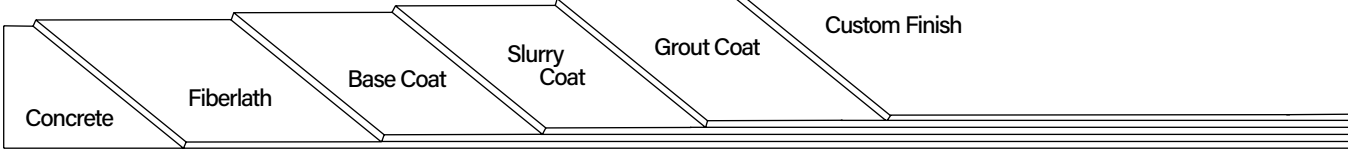
Description

The MACoat™ Custom Finish System is a fiberlath reinforced deck system installed with a series of four or five separate waterproof acrylic applications and sealed with one of Westcoat’s clear sealers. The MACoat™ Custom Finish gives the look and feel of slate, flagstone or tile. The finished product weighs approximately one pound per square foot.

Uses

The MACoat™ Custom Finish is mainly used on elevated concrete walking decks. MACoat™ Custom Finish is designed for balconies, corridors, stairs and landings. It is regularly specified for homes, hotels, condominiums, apartments, office buildings and is suitable for parking structures with vehicular traffic. In many cases, it can be applied over existing deck systems to provide an excellent method for the rehabilitation of problem surfaces.

System Overview



System Data

Coverages	Base Coat	Slurry Coat	Grout Coat	Texture Coat	WB Stain	Sealer
	220-260 ft ² per batch	250-320 ft ² per batch	100-150 ft ² per batch	150-200 ft ² per batch	150-400 ft ² per gallon	200-300 ft ² per gallon
Components	WP-51 Polyurethane Sealant			Shelf Life		
	EC-72 Epoxy Patch Gel			1-2 years		
	WP-47H Fiberlath Heavy Duty			2 years		
	WP-47A Seam Tape			5 years		
	WP-90 Waterproofing Resin			1 year		
	WP-81 Cement Modifier			2 years		
	TC-1 Basecoat Cement			2 years		
	TC-2 Smooth Texture Cement			1 year		
	TC-5 Grout Texture Cement			1 year		
	TC-40 Liquid Colorant			1 year		
SC-35 Water-Based Stain			2 years			
SC-70 Acrylic Lacquer Sealer			5 years			
Certifications	IAPMO ER-587 Class A Fire Rating (over concrete)					



Advantages

Flexible • Durable • Fast Access After Installation • Choice of Colors and Textures • Tough Final Coat is UV Resistant • Safe, Skid Resistant Textured Finish • Environmentally Safe Acrylics • Waterproof

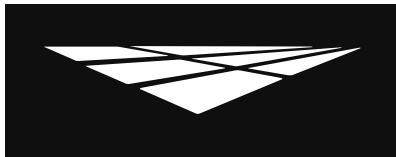
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Inspection

Concrete must be a minimum of 2 inches thick. It must be clean, dry and free of grease, paint, oil, dust, curing agents, laitance or any foreign material that will prevent proper adhesion. The concrete should be at least 2,500 PSI, porous and able to absorb water. A minimum of 28 days curing time is required on all concrete. Slope must be a minimum of ¼ inch per linear foot. Decks should meet local building code..

Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 4% by weight using a concrete moisture meter (ASTM F2659) or if the relative humidity (RH) exceeds 75% (ASTM F2170), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

Preparation

Prepare concrete to a profile equal to CSP 3 as specified by ICRI. Over existing coating, abrade the surface and do an adhesion test. For rough concrete, a slurry coat may be applied. 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. Applied prior to the MACoat™ installation.

Concrete Expansion Joints

Moving expansion joints should be honored and filled with a 2 part urethane sealant (approved by Westcoat). Sides of joints should be cleaned and applied per joint sealant manufacturer's recommendation after the MACoat™ process is completed.

Concrete Seams and Cracks

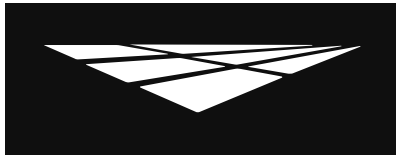
Cracks greater than 1/32 inch should be routed out ¼ x ¼ inch. Install WP-47A Seam Tape over all cracks and seams. Apply EC-72 Epoxy Patch Gel into the tape with a trowel or putty knife to smooth and broadcast with 30 grit silica sand to allow adhesion of the coating. Allow EC-72 3-4 hours to cure before the next coat. This is a remedial approach to patch cracks and there is no guarantee that cracks will not reappear.

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Primer Requirements

Priming is not required over properly prepared concrete or plywood. When coating over an existing surface, prime with EC-11 Water Based Epoxy at the rate of 300 square feet per gallon and broadcast with 30 grit or 60 grit silica sand to increase adhesion of the next coat.

Flashing

Flashing should be set in a bed of EC-72 and nailed only as needed. The vertical portion of the wall to deck flashing should be nailed at all studs, after the epoxy base has cured. Overlap all seams at least 4 inches. Caulk between overlapped flashing, as well as the seam, with WP-51 Polyurethane Sealant or WP-53 Hybrid Sealant. (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). If any repairs are needed on the flashing, where it was pinned or fastened, it is recommended to patch with EC-72. Be sure to broadcast #30 silica sand on any exposed EC-72 to ensure proper adhesion of the MACoat System.

Base Coat

Lay out WP-47H Fiberlath Heavy Duty reinforcing mesh on the deck, overlapping the seams approximately 2 inches. Combine one bag of TC-1 Basecoat Cement with five gallons of WP-90 Waterproofing Resin. This mix is larger than five gallons, so if wanting to use a five gallon pail to mix, combine 25 pounds of TC-1 with 2 ½ gallons of WP-90 by volume and mix with a mechanical mixer until uniform. Pour the mixture into the WP-47H, trowel thin and smooth at the coverage rate of 220-260 square feet per batch. Use a paintbrush to spread the base coat on the flashing, making sure to get the mixture into the 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.

Note: Should deck coating not be completed in one phase or to allow for other construction trades, deck should be covered and protected to avoid being damaged and to keep clean. It may be necessary to power wash the deck to dislodge any construction debris or any other foreign matter.

Feather Patch

Smooth all seams or imperfections by mixing one bag TC-1 with five gallons of WP-90 (For five gallon pail mix, combine 25 pounds of TC-1 with 2 ½ gallons of WP-90). Patch all areas where fiberlath is not laminated flat or any visible seams or overlaps. Feather these patches with a paintbrush and water. Scrape or sand all the patches.

Slurry Coat

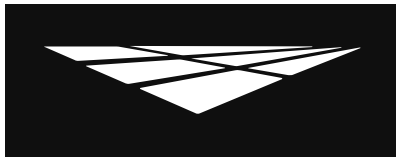
Mix one bag TC-1 with five gallons of WP-90 (see Base Coat instructions for five gallon mix) and trowel the entire surface smooth and as thin as possible, approximately 250 to 320 square feet per batch. For easier application, you may add up to 1 quart of water to help loosen up the mix. After the texture has dried (30 minutes to 1 hour), lightly scrape any trowel marks and vacuum the surface clean.

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Stair Applications

When applying the MACoat system over stairs, ensure that the substrate is properly prepared as outlined previously. When applying the MACoat system over stairs, Combine one bag of TC-1 Basecoat Cement with five gallons of WP-90 Waterproofing Resin. This mix is larger than five gallons, so if wanting to use a five gallon pail to mix, combine 25 pounds of TC-1 with 2 ½ gallons of WP-90 by volume and mix with a mechanical mixer until uniform. Trowel mix directly onto the prepared substrate at a coverage rate of 220-260 square feet per batch. Use a paintbrush to spread the base coat on the flashing, making sure to get the mixture into the seams and corners. Using a brush, wet with water, feather all outside edges. Allow surface to dry for 1-4 hours at 70F degrees. Scrape off any high spots or ridges as needed.

Apply a tack coat of WP-90 Waterproofing Resin onto the vertical and adjacent horizontal surface using a brush or roller at a rate of 100-150 square feet per gallon. Immediately after the WP-90 has been applied and while the material is still wet, place the WP-45 Flashing Fabric (fuzzy side down) into the wet WP-90, overlapping successive runs of fabric edges and ends, a minimum of 2 inches. Make sure the WP-45 fabric is fitted tightly in corners and around protrusions. Apply an additional coat of WP-90 over the WP-45 at a rate of 50 square feet per gallon. No dry fabric spots should be visible and the fabric should be completely flat and without wrinkles. Let dry a minimum of 4-6 hours (77F degrees - 50% humidity) or until the final coat of WP-90 is completely dry, before applying the Slurry Coat. Applications in the shade, cooler temperatures or high humidity conditions will require additional dry time. Do not coat over wet material.

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, simply 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.

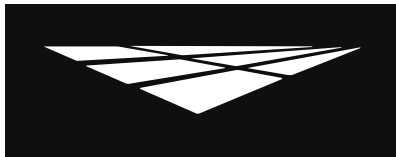
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Texture Skip Trowel

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 off 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. SC-37 Nano Stain may be used in lieu of SC-35.

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.

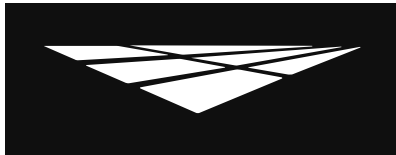
For added slip resistance, add up to 1 quart of CA-30 Safe Grip per 5 gallons of sealer. Silica sand may be broadcast when extra traction is needed. Quantities may vary. See Product Specification Sheets detailed instructions on these products.

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Optional Materials

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-70 Acrylic Lacquer Sealer for added skid resistance.

Sealer Options

- SC-70F can be used when a natural look, acrylic lacquer finish is required.

Sloping

- Westcoat Slope Technique may be used if additional sloping is required. Please contact your Westcoat Representative for further information.

Stain Options

- SC-37 Nano Stain may be used in lieu of SC-35.

Clean Up

Uncured acrylic 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 MACoat™ 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.

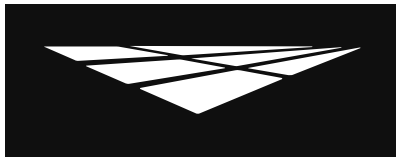
Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

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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.
- Railings, fencing, pergolas or other similar features may have the potential to cause cements to dry at different rates, due to the partial sun exposure. This may result in a striping or discoloration in cements. For best practice, it is recommended to mask off these areas to reduce this possible color variation.

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.

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