



WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

MACoat™

Description

Westcoat's MACoat System is a fiberlath-reinforced deck system installed with a series of two or three separate waterproof acrylic applications, and sealed with Westcoat SC-10 Acrylic Topcoat. The finished product weighs approximately one pound per square foot. MACoat is breathable and allows vapor to pass as opposed to traditional urethane coatings.

- City of LA Approval RR 25983
- 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

Uses

The MACoat System is mainly used on elevated concrete and non-fire rated plywood walking decks. MACoat is designed for balconies, corridors, stairs, and landings. It is regularly specified for homes, hotels, condominiums, apartments, and office buildings. In many cases it can be applied over existing deck systems to provide an excellent method for the rehabilitation of problem surfaces.

Packaging

- WP-26 Flashing
- WP-51 Polyurethane Sealant
- EC-72 Epoxy Patch Paste (½ and 2 gallon kits)
- WP-47 Fiberlath (475 sq ft per roll, 38 in. x 150 ft.)
- WP-47-3 Seam Tape (3 inch)
- WP-90 Waterproofing Resin (1 and 5 Gallon pails)
- WP-81 Cement Modifier (1 and 5 Gallon pails)
- TC-1 Basecoat Cement (50 lb. Bags)
- TC-3 Medium Texture Cement (50 lb. Bags)
- SC-10 Acrylic Topcoat (1 and 5 gallon pails)

Advantages

- Class A Fire Rating (over concrete)
- Meets AC-39 Standards for Walking Decks

INSPECTION / PREPARATION

Inspection

Concrete should be a minimum 2,500 psi and must have ¼ inch slope per lineal foot with a rough broom finish (equal to 50 to 80 grit sand paper) and be open and porous. Allow concrete to cure a minimum 28 days and make sure that the moisture content is at 4% or less. If doing a calcium chloride test, the reading should be a maximum of 5 lbs./1000 sq ft. Another test can be done by taping a plastic mat or visqueen onto the surface, then waiting 24 hours before checking for moisture. Decks should meet local building code

Plywood must be at least ¼ inch CDX or exterior grade. Slope must be a minimum of ¼ inch per linear foot. Decks should meet local building code. The deck should be tongue and groove properly blocked and screwed into

place. Plywood shall have a maximum joist span of 16 inches. Deflection should be less than L/480. OSB is not a suitable substrate.

Preparation

On concrete, remove all coatings to a sound concrete base. Prepare surface by grinding, water blasting or shot blasting to achieve surface that feels like 50 to 80 grit sand paper. Over existing coating, abrade the surface and do an adhesion test. For rough concrete, a slurry coat may be applied. Combine 1 bag of TC-1 Basecoat Cement with 1 gallon of WP-81 Cement Modifier and up to ½ gallon of water, and trowel smooth. Applied prior to the MACoat installation. On plywood be sure the surface is clean, dry and free of grease, paint, oil, dust or any foreign material that may prevent proper adhesion.

APPLICATION

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 manufacturers recommendation after the MACoat process is completed.

approach to patch cracks and there is no guarantee that cracks will not reappear.

Concrete Seams and Cracks

Cracks greater than 1/32 inch should be routed out ¼ x ¼ inch. Install WP-47-3 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 silica sand to allow adhesion of the coating. Allow EC-72 3-4 hours to cure before the next coat. This is a remedial

Plywood Seams

Seams should be dry and free of debris. WP-47-3 Seam Tape should be installed over all seams and metal flashing. Apply WP-51 Polyurethane Sealant, or EC-72 for a more ridged seam, into the tape with a trowel or putty knife to smooth. Broadcast with 30 silica sand to increase adhesion of the next coat.

An alternate way to minimize re-cracking of concrete and reduce movement of plywood seams is to place a 6

inch strip of WP-40 Sheet Membrane over the plywood seams or the cracks in the concrete as an anti-fracture treatment.

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 or #60 silica sand to increase adhesion of the next coat.

Flashing

Flash at the junction of the wall and plywood deck using 4 x 4 inch flashing. Flash the fascia with 2 x 4 inch drip edge flashing. Nail all flashing every 4 to 6 inches. Use a minimum of 26-gauge bonderized sheet metal. Flashing for concrete 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. (Note: If the flashing is not bonderized it must be etched or roughed up so that the coating will bond.)

Base Coat

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 six gallons of WP-90 Waterproofing Resin (2 parts TC-1 to 3 parts of WP-90 by volume for smaller batches). Mix with a mechanical mixer until uniform. Pour the mixture into the WP-47, trowel thin and smooth at the coverage rate of approximately 270 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°F. 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 to 4 gallons of WP-90 (1 part TC-1 to 1 part WP-90) and patch all areas where fiber lath 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 to 4 gallons of WP-90 and trowel the entire surface smooth and as thin as possible or at the rate of approximately 300 to 350 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 at 70 degrees) lightly scrape any trowel marks and sweep or blow the surface clean. You are now ready to apply the knock down texture.

Smooth Texture (Optional)

For a smooth texture, mix one bag TC-1 to 4 gallons of WP-90 and trowel the entire surface smooth or at the rate of approximately 300 to 350 square feet per batch. For easier application, you may add up to 1 quart of water to help loosen up the mix. After the cement has dried (30 minutes to 1 hour at 70 degrees) lightly scrape any trowel marks and sweep or blow the surface clean. You are now ready to apply the topcoat

Knockdown Texture (Optional)

If a knockdown texture is desired, combine 1 bag of TC-3 Medium Texture Cement with 1 gallon of WP-90 Waterproofing Resin. WP-81 may be used for concrete applications. Mix thoroughly with a mechanical mixer. Add up to 1/2 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 150-200 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" using 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 of the hopper gun. Spray texture evenly at a 90% coverage. 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 sweep or blow the surface clean prior to sealing. To avoid making impressions, the applicator should wear golf, baseball or spiked shoes.

Topcoat

Mix all containers of the SC-10 Acrylic Topcoat to ensure a consistent color. The material may be thinned by adding up to one quart of water per gallon to avoid streaks, (especially in hot weather). Roll two thin applications of SC-10 using a 1/4 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 to 6 hours drying time before permitting light pedestrian traffic or applying 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.

Optional Materials

Basecoat Options

•For increased waterproofing, when applying basecoat into fiberlath replace WP-90 with WP-91. Mixing at 4 gallons of WP-91 to 1 50lb bag of TC-1 and add up to 1 gallon of water to aid in application.

Clean Up

Uncured acrylic material can be removed with soap and warm water. If cured, material can only 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 clear sealer every 3 to 5 years depending upon traffic and UV exposure. Contact the original Installer of Westcoat for complete recoating 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.

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 product to FREEZE.
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DISCLAIMER

PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT

OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.

TEST DATA

Test	MACoat Standard over Concrete
Accelerated Aging ASTM D-756	Pass
Fire-Retardent Roof Covering ASTM E-108	Class A
One-Hour Fire Test ASTM E-119	--
Bond Strength (Control) ASTM C-297	Pass
Bond Strength (Accel. Aging) ASTM-C297	Pass
Bond Strength (Freeze-Thaw) ASTM C-297	Pass
Abrasion ASTM D-1242	.016 inches
Water Absorption ASTM D-570	3.86%
Chemical Resistance ASTM D-2299	Pass
Freeze-Thaw ASTM C-67	<1%
Concentrated Load AC-39 Section 4.12	Pass
Impact Resistance ASTM D-3746	Pass



westcoat

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