



WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

MACoat[™]

Description

Westcoat 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.

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.

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
- Optional Finishes

Packaging

- WP-51 Polyurethane Sealant
- WP-90 Waterproofing Resin (1 and 5 Gallon pails)
- TC-1 Basecoat Cement (50 lb. Bags)
- WP-47 Fiberlath (475 sq ft per roll, 38 in. x 150 ft.)
- WP-47-3 Seam Tape (3 inch)
- EC-72 Epoxy Patch Paste (½ and 2 gallon kits)
- EC-74 Epoxy Patch Gel (½ and 2 gallon kits)
- SC-10 Acrylic Topcoat (1 and 5 gallon pails)
- WP-26 Flashing

INSPECTION / PREPARATION

Inspection

Concrete must have ¼ inch slope per lineal foot with a rough broom finish (like 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 five pounds or less of vapor transmission per 1,000 square feet. Another test is 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 ¾ inch CDX 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 gallon of TC-1 Basecoat Cement with 1 bag 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.

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 or EC-74 Epoxy Patch Paste 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 or EC-74, 3-4 hours to cure before the next coat.

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, EC-72, or EC-74 (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.

Note: An alternate way to minimize re-cracking of concrete and reduce movement of plywood seams is to place 6 inch strips 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.

Sloping and Patching

Sloping should always be done in the substrate. It is the responsibility of the building owner and not the deck coating applicator. If sloping is requested it should be noted on the work order. The applicator along with the manufacturer should not be held responsible for the outcome of this remedial measure to help correct the preexisting slope condition.

When building up over plywood, galvanized metal lath should be stapled to the plywood to strengthen and help bond the material to the surface. When building over concrete, profile concrete to a texture equal to #30 grit sand paper or greater.

Sloping or patching may be done by combining ½ gallon of WP-81 Cement Modifier with one bag of TC-1 Basecoat Cement and between ½ and ¾ gallons of water. Maximum thickness should be ½ inch. When required slope or patch is greater than ½ inch, combine one bag TC-1 with up to 20 lbs of B-23 Monterey Sand, with ½ gallon of WP-81 and between ½ and ¾ gallon of water. Mix in a wheelbarrow, cement mixer or cut batch in ½ and mix in a 5 gallon bucket with a mechanical mixer. Maximum thickness should be 2 inches.

Note: Some shrink cracks are may occur. Cracks will be filled when WP-47 Fiberlath and base coat are applied.

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 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 or EC-74 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, any visible seams or overlaps. Feather these patches with a paintbrush and water. Scrape or sand all the patches.

Smooth Texture

Mix at a 1 to 1 ratio (one bag TC-1 to 4 gallons of WP-90) and trowel the entire surface smooth (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) lightly scrape any trowel marks and sweep or blow the surface clean. You are now ready to apply the topcoat or knock down texture.

Knockdown Texture

Combine 1 bag of TC-3 Medium Texture Cement with 1 gallon of WP-90 (for concrete WP-81 may be used in lieu of WP-90), Waterproofing Resin. Mix thoroughly with a mechanical mixer. 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 150-200 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 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) 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 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, four to six hours drying time 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.

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/REPAIR

Maintenance

The MACoat coated deck should be inspected for wear every 2 to 4 years. The deck should be resealed with SC-10 Topcoat every 3 to 5 years depending upon traffic and UV exposure.

Repair

Repairs may be done by grinding off the damaged area and replacing the material as written in this specification. Subsurface must be replaced if necessary and Fiberlath overlapped to integrate into the remaining surface.

LIMITATIONS

- Do not install if the temperature is below 55°F or above 95°F.
- Rain will wash away uncured Westcoat acrylic products.
- If inclement weather threatens, cover deck to protect new application.
- Store material between 40°F-90°F.

- Read and obey all warnings.
- OSB is not recognized as a suitable substrate.
- Cements contain silicas, dust masks or respirators should be used.
- Do not allow any Westcoat products to FREEZE.

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.

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.



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