



MACoat™

**Waterproofing
Underlayment**

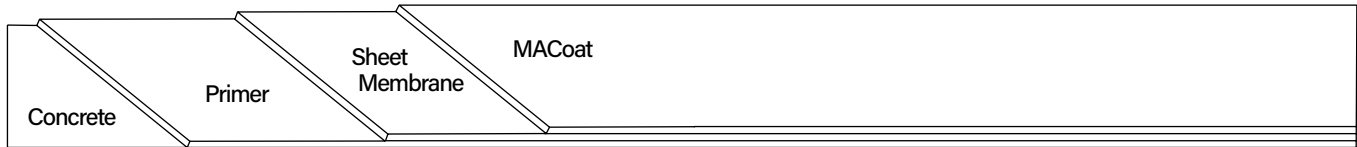
Description

MACoat™ Waterproofing Underlayment System is a waterproof reinforced deck system installed with a series of two separate waterproof applications. The first layer is WP-41 Sheet Membrane, a 60 mil rubberized asphalt self-sealing membrane. The second layer is a highly resonated cement, designed for extra waterproofing and to protect the sheet membrane.

Uses

The MACoat™ Waterproofing Underlayment System is used on elevated concrete decks for under tile and between slab applications. MACoat™ Waterproofing Underlayment is designed for the discriminating contractor who demands a tough and reliable system. It is regularly specified for balconies, corridors, stairs and landings.

System Overview



System Data		
Coverages	Primer 150-250 ft² per gallon	MACoat™ Application 300-350 ft² per batch
Components	WP-51 Polyurethane Sealant WP-47A Seam Tape EC-72 Epoxy Patch Gel WP-43 Sheet Membrane Primer WP-42 Sheet Membrane Mastic WP-41 60 mil Sheet Membrane WP-90 Waterproofing Resin TC-1 Basecoat Cement	Shelf Life 1-2 years 1 year 2 years 1 year 1 year 1 year 2 years 1 year

Advantages

Flexible • Durable • Fast Access After Installation • Environmentally Safe Acrylics • Waterproof

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**SYSTEM
SPECIFICATION**

WP

WATERPROOF
RELIABLE MOISTURE BARRIERS

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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. Decks should meet local building code. 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.

Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet (ASTM F1869) 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.

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. Allow EC-72 3-4 hours to cure before the application of the WP-41. This is a remedial approach to patch cracks and there is no guarantee that cracks will not reappear.

Concrete Repair

For concrete that needs repairs beyond just dormant cracks, TC-23 Mortar Mix can be used. TC-23 is designed to be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material under most Westcoat systems. Please refer to the TC-23 Mortar Mix Product Specification Sheet for details.

Flashing

Flash at the junction of the wall and the deck using 6 x 4 inch flashing. Flash the fascia with 2 x 4 inch drip edge flashing. Use a minimum of 26-gauge bonderized sheet metal. 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. (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).

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Primer Requirements

Priming is required over properly prepared concrete. Apply the WP-43 Sheet Membrane Primer to the concrete at a rate of 150 to 250 square feet per gallon. Do not allow primer to puddle or have excessive amounts of primer, this may cause blistering. Brush or roll out primer, being sure entire surface to be waterproofed is primed. **DO NOT COVER WET PRIMER.** Prime only what you can cover with the membrane in 4 hours. Apply membrane when the primer is tacky but not wet. Primed areas not covered in 8 hours must be re-primed.

Sheet Membrane

Apply WP-41 Sheet Membrane to the entire deck. Using a seam roller, roll the deck to smooth out any bubbles.

Mastic Application

Apply WP-42 Sheet Membrane Mastic to all terminating edges, end laps and to any detailed areas. The mastic should be applied the same day of the application.

MACoat™ Application

Mix one bag TC-1 to five gallons of WP-90 (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) 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.

Flood Test

Prior to flood testing, allow mastic 24 hours to fully cure. Perform flood test with a minimum of 1 inch and a maximum of 3 inches of water for 24 hours. Drains should be plugged and barriers placed to contain the water.

Optional Materials

Cement Options

- TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

Clean Up

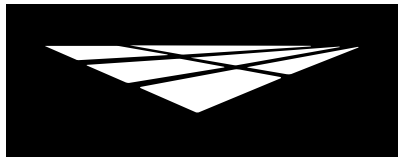
Uncured acrylic material can be removed with soap and warm water. If cured, material can only be removed mechanically or with an environmentally-safe solvent.

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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.
- 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.

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