



MACoat™ Vehicular Traffic System

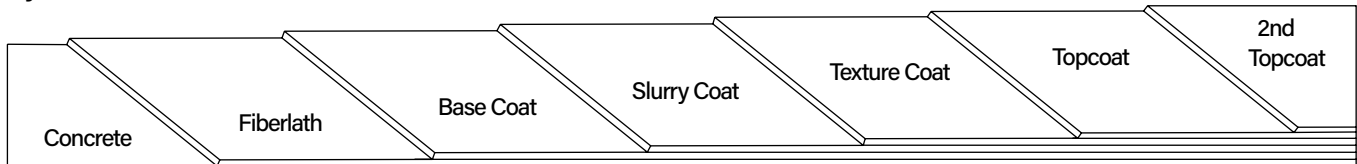
Description

The MACoat™ Vehicular Traffic System (VTS) is a fiberlath reinforced deck system installed with a series of three separate waterproof acrylic applications and sealed with 2 coats of Westcoat EC-95G Gloss Polyurethane Topcoat. The finished product weighs approximately one pound per square foot.

Uses

The MACoat™ Vehicular Traffic System is used on elevated concrete decks. MACoat™ VTS is designed for use in vehicular traffic areas, such as: parking structures and garages, parking decks and ramps. Additionally the MACoat™ VTS can be used on plazas, rooftop decks, terraces and balconies.

System Overview



System Data					
Coverages	Base Coat 220-260 ft ² per batch	Slurry Coat 250-320 ft ² per batch	Orange Peel Texture 150-200 ft ² per batch	Topcoat 300-400 ft ² per gallon	2nd Topcoat 300-400 ft ² per gallon
Components	WP-51 Polyurethane Sealant EC-72 Epoxy Patch Gel WP-47H Fiberlath Heavy Duty WP-47A Seam Tape WP-90 Waterproofing Resin WP-81 Cement Modifier TC-1 Basecoat Cement TC-3 Medium Texture Cement EC-95G Gloss Polyurethane Topcoat CA-33 Aluminum Oxide		Shelf Life 1-2 years 2 years 5 years 1 year 2 years 2 years 1 year 1 year 3 years N/A		

Advantages

Flexible • Durable • Fast Access After Installation • Choice of Colors and Textures • Polyurethane Topcoat • Safe, Skid Resistant Textured Finish • Environmentally Safe Acrylics • Waterproof

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.

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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. 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 1/4 x 1/4 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.

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.

Primer Requirements

Priming is not required over properly prepared concrete.

Flashing

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 prepared in accordance with SSPC-SP11 surface preparation standards, in order for the coating to adhere properly).

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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 70F 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 to 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 to five gallons of WP-90 (see Base Coat instructions for five gallon mix) and trowel the entire surface smooth and as thin as possible or at the rate of 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 at 70F degrees) lightly scrape any trowel marks and vacuum the surface clean. You are now ready to apply the Orange Peel Texture.

Orange Peel Texture

For an Orange Peel Texture, combine 1 bag of TC-3 Medium Texture Cement with 1 gallon of WP-81 Cement Modifier. 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 90% coverage at a rate of about 150-200 square feet per batch. Spray continuously, do not stop in the middle of the deck. If you are unsatisfied with the results, immediately scrape off and re-spray, as desired. To avoid making impressions, the applicator should wear cleated shoes, making sure not to perforate the MACoat™ VTS.

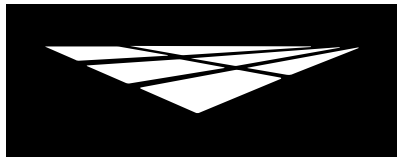
After the texture has dried (30 minutes to 1 hour at 70F degrees), lightly scrape any trowel marks and vacuum the surface clean prior to sealing. Allow the Orange Peel Texture to dry for approximately 4-6 hours at 72F degrees before applying the Topcoat.

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Topcoat

Premix each component separately. For color consistency, box all part A's. In a clean bucket, mix 2 parts A with 1 part B (by volume) of EC-95G. Mix thoroughly with a low speed (400-600 rpm) drill motor for 3-4 minutes. Make sure to scrape the sides and bottom of the container during mixing. After mixing is completed, remove material from container.

Immediately after mixing, spread a strip of the material onto the surface along the edge where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a squeegee or flat trowel and back roll with a $\frac{3}{8}$ to $\frac{1}{2}$ inch non-shedding, solvent resistant roller cover. Material should be applied at a rate of 300-400 square feet per gallon. Apply quickly and do not over roll, as product will begin to "tack-up" as the air begins to cure it. CA-33 Aluminum Oxide in either #36 or #60 grits should be broadcast into the EC-95G to provide a slip resistant surface. Two coats of EC-95G are required to provide suitable protection over the MACoat VTS. A mockup should be performed, prior to the application, to confirm texture, color, slip resistance and overall finish.

Re-coat if needed, within 24 hours of application to ensure adhesion. If a delay occurs, it is recommended that the surface be lightly sanded and wiped with denatured alcohol just before reapplication. A test area should be performed prior to all re-coats.

Prohibit traffic on the floor for 48 hours after installation. Avoid heavy abrasion and chemical exposure for 5 days. Allow 72 hours minimum for vehicular traffic (all times are based on 72F degrees).

Optional Materials

Basecoat Options

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

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.

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.

Sloping

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

Additional Waterproofing

- WP Wrap can be used as a supplemental waterproofing system used to provide additional waterproofing with reinforcement, along the perimeter of decks, over flashing and other challenging areas.

Optional Topcoat

- EC-102 Polyaspartic is recommended when tire staining is a concern and also provides a quick drying, UV resistant, high gloss, high build, mar and chemical resistant finish. Two coats of EC-102 are required to provide suitable protection over the MACoat VTS.

* Please refer to Product and System Specification Sheets for additional information.

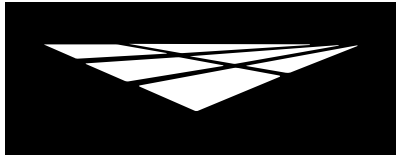
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Clean Up

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™ Vehicular Traffic 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.

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.

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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