



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 clear sealers. The MACoat Custom Finish can give 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, 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
- Skid Resistant Textured Finish
- Environmentally Safe Acrylics
- Waterproof

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

Optional Materials

- WP-81 Cement Modifier (1 and 5 gallon pails)
- EC-31 Epoxy Clear Topcoat, Interior Only (1½ and 15 gallon kits)
- EC-95 Polyurethane Topcoat (1 gallon kits)
- EC-100 Polyurea Topcoat (1½ and 15 gallon kits)
- SC-41 Hybrid Acrylic Sealer (1 and 5 gallon pails)
- SC-70 Acrylic Lacquer Sealer (1 and 5 gallon pails)
- SC-75 Polyurethane Sealer (1 and 5 gallon pails)
- SC-25-Accent Powder (2 gallon pails)
- TC-40 Liquid Colorant (10 oz. bottles)
- TC-2 Smooth Texture Cement (50 lb bags)
- TC-4 Fine Texture Cement (interior only)
- TC-5 Grout Texture Cement
- CA-60 Grout Tape (¼ to 2 inch widths)
- CA-50 Stone Strips

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, then waiting 24 hours before checking for moisture. Another test is done by taping a plastic mat or visqueen onto the surface and waiting 24 hours before checking for moisture. Decks should meet local building code.

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. Apply 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 Custom Finish 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.

Note: An alternate way to minimize re-cracking of concrete is to place 6 inch strips of WP-40 Sheet Membrane over the plywood seams or the cracks in the concrete.

Primer Requirements

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 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, 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 cracking may occur, cracks will be filled after WP-47 Fiberlath and base coat is applied.

Flashing

Flash at the junction of the wall and deck using 4 x 4 inch flashing. Flash the fascia with 2 x 4 inch flashing. 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 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 until uniform with a mechanical mixer. Pour the mixture into the WP-47 Fiberlath, 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 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.

Slurry Coat For Grout

Mix the TC-5 Grout Texture Cement by combining 1 bag of TC-5 (natural gray grout color), or TC-2 Smooth Textured Cement combined with TC-40 Liquid Colorant of choice, into 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. Mix thoroughly with a low rpm drill motor. For best results allow slurry to dry overnight, prior to pattern installation.

Pattern Installation

For a flagstone look, simply peel the CA-50 Stone Strips and apply to the grout coat in a simulated flagstone pattern. Take time lying 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.

Texture Skip Trowel

Combine one bag of TC-2 Smooth Texture Cement, TC-5, Grout Texture Cement or TC-4 Fine Texture Cement (for interiors), into one gallon of WP-81 Cement Modifier. 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 and using

a skip trowel method, trowel the area using a rounded pool trowel for best results. 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. If you are unsatisfied with the results, scrape off immediately and re-apply.

After the texture has hardened enough to walk on, scrape 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 CA-60 Grout Tape or CA-50 Stone Strips you may elect to remove them before you proceed to coloring options. Sweep or wash off the excess cement dust and debris.

Color Wash

Mix the SC-25 Accent Powder in choice of color with four to ten parts of water, and roll on to the texture with ¾ inch nap roller and work color into the surface using a stiff brush or broom. Continue to broom the SC-25 until most of the water has evaporated or until all broom marks have dissipated. Reapply to darken or accent individual “stones” or “tiles”. Mixed SC-25 must be continuously stirred to avoid settling. The darkening or accenting can be achieved by “dry rubbing” the Accent Powder on to the surface with a dry sponge.

Coloring Options

- Apply SC-35 Water-Based Stain for unique variegated look of acid stain, without need to rinse.
- Apply SC-30 Acid Stain for use where rinsing is not a problem. See Product Specification Sheets on these products prior to use.

Sealers

- For exterior textures that require the “wet look” apply SC-70 Acrylic Lacquer Sealer.
- For greater chemical, mar and UV resistance, apply SC-75 Polyurethane Sealer.
- For textures requiring a more natural look, apply SC-41 Water-Based Hybrid Acrylic Sealer.

SC-41, SC-70 and SC-75 may be applied 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. For added slip resistance add up to 1 quart of CA-30 Safe Grip per 5 gallons of sealer. Silica sand may be broadcasted when extra traction is needed. Quantities may vary. See Product Specification Sheet for thinning and detailed instructions on these products.
(SC-75 not recommended over smooth surfaces)
(SC-41 not recommended over acid stain)

Interior Sealers

- EC-31 Epoxy Clear Topcoat for interior textures that require a high build, chemical and mar resistance apply.
- EC-95 Polyurethane Topcoat may be installed over the EC-31 for the ultimate high build, mar and chemical resistant finish.
- EC-100 Polyurea Topcoat may be used as a 5 hour dry time, high build, mar and chemical resistant finish.

Clean Up

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

MAINTENANCE/REPAIR

Maintenance

The MACoat Custom Finish deck should be inspected for wear every 2 to 4 years. The deck should be resealed with the appropriate Westcoat clear sealer 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.
- 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.



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