

CONCRETE STAIN & SUPPLY, LLC

Technical Data Sheet (TDS) Mantello Resurfacer

Product

Mantello Resurfacer is an environmentally progressive product that eliminates the need to remove unsatisfactory concrete. Available in coarse or smooth grade, it is a two-component cementitious coating for stable concrete surfaces that provides superior coverage to transform damaged, worn or unsightly concrete into an unblemished surface. The proprietary blend of ingredients gives Mantello Resurfacer exceptional durability and the tenacious holding power needed to eliminate delamination, peeling and flaking. It also contains antimicrobial agents formulated to inhibit the growth of bacteria, fungi and other microbiological populations.

Mantello Resurfacer can be integrally colored and readily accepts acid stain, pigmented stain, dye, epoxies and acrylic sealers. It can be engraved in an endless variety of patterns ranging from simple tile to complex geometric designs. Mantello Resurfacer can be applied as a thin micro-topping or thicker multiple layer coating for a deep overlay.

Coverage

Coverage rates vary according to viscosity of mixture and depth of application.

- Squeegee application – approximately 150-200 sq. ft. / kit
- Trowel application – approximately 75-150 sq. ft. / kit

Tools & Supplies

Supplies: pump-up sprayer, bucket, and low-speed drill with mixing paddle.

Application tools: pool trowel, Magic Trowel™, margin trowel, broom or hopper gun.

Surface Preparation

Surface and ambient temperatures should be between 50°F and 90°F during application and curing.

Fill all holes deeper than 1/16" with coarse blend Mantello Resurfacer and allow to fully cure prior to coating the entire floor. Contaminants and curing agents must be **completely removed**. Failure to remove all contaminants can result in loss of adhesion.

INTERIOR SURFACES:

Option A

1. Run Engrave-A-Crete Blastin' Betty over the surface to **remove all contaminants** including, but not limited to, paint and sealers. A tight-troweled surface should reach the texture of 220 grit sandpaper or rougher.
2. Thoroughly scrub the surface using a floor machine with a nylon bristle brush using water and CR-580 Degreaser.

***Dispose of all waste water in accordance with local, state, and federal regulations.

Option B

1. If needed remove all paint and/or sealer from the surface using CR-590 Paint & Sealer Remover.
2. If the surface has an oily or greasy film OR if CR-590 Paint & Sealer Remover was used, scrub the surface using CR-580 Degreaser.
3. Apply CR-765 Surface Prep & Etch at a dilution ratio of 4 parts water to 1 part Surface Prep & Etch. Scrub in with a stiff bristle broom. When the fizzing action stops, rinse the surface with water. Do not allow the Surface Prep & Etch solution to dry on the concrete. If a more porous surface is needed, repeat Step 3. An interior floor's surface texture should feel similar to 220 grit sandpaper or rougher.
4. Apply CR-585 Surface Neutralizer (dilution of 8 oz in 5 gallons water) using a stiff bristle brush or broom to scrub in the neutralizing solution, then rinse with water.
5. Thoroughly scrub the surface using a floor machine with a nylon bristle brush using water and CR-580 Degreaser.

***Dispose of all waste water in accordance with local, state, and federal regulations.

EXTERIOR SURFACES

1. Remove oil and grease using Concrete Resurrection Degreaser.
2. Pressure wash and rinse.
3. Apply CR-765 Surface Prep & Etch at a dilution ratio of 4 parts water to 1 part Surface Prep & Etch. Scrub in with a stiff bristle broom. When the fizzing action stops, rinse the surface with water. Do not allow the Surface Prep & Etch solution to dry on the concrete. If a more porous surface is needed, repeat Step 3.
4. Apply CR-585 Surface Neutralizer (dilution of 8 oz in 5 gallons water) using a stiff bristle brush or broom to scrub in the neutralizing solution then rinse with water.
5. Pressure wash.

***Dispose of all waste water in accordance with local, state, and federal regulations.

Mixing Ratio:

- Micro-Topping – 1 box dry mix, 1 gallon liquid modifier, 1 quart water (32 oz)
- Trowel grade (1/32"-1/8" depth) – 1 box dry mix, 1 gallon liquid modifier, 1 pint water (16 oz)
- Vertical application – 1 box dry mix, 1 gallon liquid modifier

Pour the liquid modifier (and water if required) into a clean bucket. Gradually add the dry mixture while mixing using a low-speed drill equipped with a smooth sided mixing paddle. Mix thoroughly so that no lumps or dry powder remain. Allow to stand 5 minutes then remix. Mixture will appear to be setting up, but it is simply absorbing liquid. **DO NOT ADD ADDITIONAL WATER OR MODIFIER.**

Application

To avoid premature drying (which can cause mud cracking) spray a fine mist of water over the surface before applying Mantello Resurfacer. Work in small sections at a time and do not allow water to pool or puddle. Allow each coat to dry before applying next coat. A scraper can be used between coats to remove ridges or lumps. To avoid premature surface drying do not use fans to speed drying. Apply when winds are calm.

All existing control joints must be honored. If control joints are filled in with Mantello Resurfacer, they must be re-cut as soon as the coating has cured. Existing cracks must be structurally repaired in order to be covered with Mantello Resurfacer or they must be honored through the top surface of the coating.

If a completely smooth surface is desired, each coat should be sanded using a floor machine equipped with a sanding screen prior to application of the next coat. A means for dust control is essential.

Interior Applications

Textured Floor – Apply 1-2 coats of Coarse using a pool trowel.

Smooth Floor – Apply 1-2 coats of Coarse then 1-2 coats of Smooth using a Magic Trowel.

Exterior Applications

Textured surface – Apply 1-2 coats of Coarse using a pool trowel.

Thin Broom Finished surface – Apply 1 coat of Coarse using a Magic Trowel and immediately broom

Thick Broom Finished surface – Apply 1 coat (1/16" thick) of Coarse using a pool trowel or Magic Trowel and broom finish.

Note – Use Gray when you wish to mimic standard concrete. White is used when a brightly colored surface is desired. If you plan to use integral color use the product specified on the color chart.

Cure Rate/Drying Time

Thickness of application, temperature, and humidity will affect cure rate. Surface will exhibit uniform appearance when dry. Approximate dry times: 12 hours to re-coat, 24 hours to engrave or stain.

Staining

- Surfaces to be stained must be clean and free of all dirt and contaminants.
- Mantello Resurfacer must cure for a **minimum** of 24 hours prior to staining. Surface will exhibit a uniform appearance when dry.
- Concrete Resurrection Water Reducible Concentrate (WRC) Stains **must be applied** with an HVLP

CONCRETE STAIN & SUPPLY, LLC

sprayer.

- Concrete Resurrection Reactive Acid Chemical (RAC) Stains **must be diluted** with a minimum of 6 parts water to 1 part stain. Surface will blacken if stain is not properly diluted.
- Follow label directions and technical data sheets for stain application.
- Color may vary from color chart. Prepare a test section for customer approval. Age, color and texture of concrete, as well as dilution ratio affect final color appearance.

Storage and Shelf Life

Keep away from children.

Avoid freezing temperatures and excessive heat. Protect from moisture.

Unopened containers may be stored for up to one year from the date of manufacture.

Recommendations

Apply Concrete Resurrection CR-560 Outside Acrylic Sealer, CR-515 Inside Acrylic Sealer, or CR-530 Inside Epoxy to maximize stain resistance and extend the life of the completed project.

A non-skid additive may be added to exterior surfaces for safety.

Limitations

Mantello Resurfacer is for use on stable concrete.

Mantello Resurfacer may reflect moving cracks and expansion joints.

Prepare a sample for owner approval prior to application.

As with other cementitious and masonry products, Mantello Resurfacer will stain and tire mark if left unsealed.

It is the sole responsibility of the property owner or applicator to determine the suitability and safety of this product.

Clean Up

Use water to immediately and completely clean all tools that come in contact with Mantello Resurfacer.

Dispose of waste water in accordance with federal, state and local regulations.

Safety

- Wear protective respiratory gear when handling dry portions of Mantello Resurfacer or when sanding coated surfaces.
- Avoid contact with eyes and prolonged contact with skin. Mantello Resurfacer contains silica and Portland cement. Portland cement can cause alkali burns.
- Use with adequate ventilation. When using in confined or limited ventilation areas, use respirator to protect against breathing vapors and particles.
- Use proper safety apparel including but not limited to gloves, eye protection, respirator and protective clothing.

First Aid

- Eyes—Do not rub eyes. Flush immediately with water holding eyelids apart.
- Skin—Wash affected areas thoroughly with soap and water
- Inhalation—Move to fresh air. If symptoms persist, seek medical attention
- Internal—Contact a physician immediately

Warranty

The Manufacturer and/or the Seller warrants that if any goods supplied prove defective in workmanship or material, that Manufacturer and/or Seller shall replace them or refund the purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability of the product for his intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Manufacturer and/or Seller be liable for incidental, consequential or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Manufacturer and/or Seller for any claims arising out of the use or sale of the product shall be for the User's purchase price. Any claim of defective product must be received in writing within one (1) year from date of shipment.