

Engrave-A-Crete, Inc.

Technical Data Sheet (TDS) MicroTop (White Or Gray)

Product

MicroTop is a single component polymer cement coating for stable concrete surfaces that creates a new unblemished top surface for damaged, worn or unsightly concrete. The proprietary blend of ingredients gives MicroTop exceptional durability and the tenacious holding power needed to eliminate delamination, peeling and flaking.

Coverage per 35 LB Bucket

Interior Floors – Magic Trowel/Squeegee Application 1/64" (15 mils) thick ----- 400 sq ft

Interior Floors – Magic Trowel/Squeegee Application 1/32" (31 mils) thick ----- 200 sq ft

Exterior surfaces – **Warning!** Complete resurfacing of an exterior slab of concrete with MicroTop will result in a smooth and possibly slippery surface. MicroTop can be applied using a pressure pot spray rig to create a very thin surface (2-4 mils thick) coating on exterior concrete to refresh the concrete slab and allow it to accept an acid stain with vibrant colors. Coverage using a pressure pot sprayer at 2-4 mils thick – 1000-1500 sq ft per 35 LB bucket.

Tools & Supplies Needed:

Clean bucket, low-speed drill with mixing paddle, spikes

Pool trowel, margin trowel, Magic Trowel, squeegee or pressure pot sprayer.

Appropriate Safety Equipment and Apparel (see last page for specific list)

Surface Preparation

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

After all cleaning operations have been completed, pre-fill all holes deeper than 1/16" with MicroTop 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. Surface grind or shot blast 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 Concrete Resurrection Degreaser (CR-580). ***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 Concrete Resurrection Paint & Sealer Remover (CR-590).
2. If the surface has an oily or greasy film OR if Concrete Resurrection Paint & Sealer Remover (CR-590) was used, scrub the surface using Concrete Resurrection Degreaser (CR-580).
3. Apply Concrete Resurrection Surface Prep & Etch (CR-765) 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 Concrete Resurrection Surface Neutralizer (CR-585) (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.

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5. Thoroughly scrub the surface using a floor machine with a nylon bristle brush using water and Concrete Resurrection Degreaser (CR-580). ***Dispose of all waste water in accordance with local, state, and federal regulations.

EXTERIOR SURFACES

1. Remove oil and grease using Concrete Resurrection Degreaser (CR-580).
2. Pressure wash and rinse.
3. Apply Concrete Resurrection Surface Prep & Etch (CR-765) 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 Concrete Resurrection Surface Neutralizer (CR-585) (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

Pour 4 – 5 quarts of clean cool water 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. **DO NOT ADD MORE THAN SPECIFIED AMOUNT OF WATER**

Application

Apply a light mist of clean water to the concrete surface. Do not allow the water to puddle. The dampening of the slab keeps the concrete from pulling the water from the MicroTop. Premature drying or water loss will result in a low strength, cracked and or crusty coating.

Cure Rate/Drying Time

Thickness of application, temperature, and humidity will affect cure rate. Surface will exhibit uniform appearance when dry. Approximate dry times: 4-8 hours to re-coat, 24 hours to engrave or stain.

Clean Up

Use water to immediately and completely clean all tools that come in contact with MicroTop. Dispose of waste water in accordance with federal, state and local regulations.

Limitations

MicroTop is for use on stable concrete, it may reflect moving cracks and expansion joints. Prepare a sample for owner approval prior to application. As with other cement and masonry products, MicroTop 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.

Staining

- Surfaces to be stained must be clean and free of all dirt and contaminants.
- MicroTop 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 sprayer or scrubbed in with high quality cotton rags.
- Concrete Resurrection Reactive Acid Chemical (RAC) Stains **must be diluted** with a minimum of 2 parts water to 1 part stain. Surface may blacken if stain is not properly diluted.

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- Follow label directions and technical data sheets for stain application.
- **Color may vary from color chart. Prepare a test section for customer approval.**

Storage and Shelf Life

Keep away from children.

Avoid freezing temperatures and excessive heat. Protect from moisture.

Unopened containers have a one year shelf life.

Safety

Wear protective respiratory gear when handling dry portions of MicroTop. Avoid contact with eyes and prolonged contact with skin. MicroTop 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 the defective product. 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 90 days from date of shipment.