

# Micro-Topping Installation Guide

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**Follow International Concrete Repair Institute (ICRI) and American Concrete Institute (ACI) Guidelines for repairing concrete, and the appropriate Manufacturer Technical Data Sheets, in addition to these guidelines.**

## **Proper surface preparation is critical for a successful micro-topping application**

The overlay is no stronger than the concrete substrate to which it is applied. The concrete you are applying the overlay to must be structurally sound. Deteriorated, cracked, or spalled concrete must be repaired before applying the spray texture. Any type of coating, curing agent, grease, oil, dirt or any other contaminant should be removed. Spray texture applications are not suitable for use on surfaces that are subjected to corrosive chemicals, steel wheel traffic, or heavy point impact.

**Jobsite Supply offers a complete line of concrete repair products. Consult a Jobsite Supply associate for recommendations on the appropriate repair products for your project.**

## **Cleaning**

The surface must be thoroughly cleaned to remove all residual coatings, dirt, or contamination, to create an open, porous substrate. Curing agents, laitence and efflorescence, must be removed from the surface of new concrete. Shot blasting or sand blasting is the best method of surface preparation. If unable to blast or mechanically scarify the surface, preparation can be achieved by chemical cleaning. Use **Emerge** degreaser for dirt and oil stains. Use 1 part muriatic acid to 10 parts water solution and scrub the surface vigorously with an acid resistant scrub brush. Follow with repeated applications of baking soda or tri-sodium phosphate cleaners in order to neutralize the muriatic acid. Surface preparation is complete when the surface is free from acid residue, sand, grit, detergent residue, or any thing that will prevent bonding.

## **Prep and Seal**

This product greatly reduces moisture vapor emissions and improves the freeze-thaw resistance of overlays.

**Prep and Seal** penetrates the pores of concrete and reacts with the alkalinity and the portland cement to create a crystal like shield. Spray at a rate of 300 square feet per gallon in each direction. Apply evenly and do not allow the material to puddle. **Wait 24 hours, if efflorescence is present rinse off with water and repeat the process. Do not apply the overlay until there are no signs of efflorescence.**

## **Mixing**

**Brickform Micro-Topping** kits consist of 2 bags **Brickform Micro-Topping Rough Grade** or 2 bags of **Brickform Micro-Topping Smooth Grade** and 5 gallons of **Brickform Liquid Polymer**. Always place the liquid into the mixing pail before adding powder. Mix the materials thoroughly for 3-5 minutes with a **CS Unitec Mixer** for best results. The ratio of polymer to powder may have to be adjusted for the specific project conditions. Once the mixing ratio has been established, it should remain the same throughout the job. Do not mix more material than you can apply within fifteen to twenty minutes at 75° F. **Higher temperatures will shorten your working time.**

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## **Brickform Micro-Topping RG**

The aggregate is larger and makes this great as either a primer coat before applying **Brickform Micro-Topping SG**. It also works great when a non-slip surface is desired in interior and exterior applications. A base coat is always recommended for a more appealing finished look. For the look of integral colored concrete, **Brickform Micro-Topping Colorant** can be added to each mixed kit. Add the colorant to the polymer. Clean out all of the pigment residue in the bottle by dipping the container into the polymer, shaking it, and adding the remaining colorant to the mixing container. Remember, one mixed kit is 2 bags of RG to 5 gallons of polymer. Coverage is approximately 250 square feet per mixed kit.

Apply the rough grade coat with a **Magic Trowel**, or a **Midwest Rake Decorative Squeegee** at 1/16", for best results do not apply greater than 1/8". (Squeegee lines should run in a uniform direction at 90 degrees to the entrance, parallel to the front wall. Let the base coat dry until it can be walked on without marring the surface. This can take anywhere between 2 to 8 hours, depending on project conditions. High spots can be sanded down with a drywall sander or a 100 grit sandpaper on a rotary floor machine. Sweep or vacuum all dust and debris before applying the next application.

## **Brickform Micro-Topping SG**

The aggregate is much finer than the rough grade, and makes this a great top coat to provide a very smooth surface. **Brickform Micro-Topping SG** can be used in both interior and exterior applications. **Brickform Micro-Topping Colorant** can also be used following the same directions as above. One mixed kit is the same as before, 2 bags of SG to 5 gallons of polymer. Apply using the same application methods that were described with the rough grade mentioned above.

## **Additional Coloring Methods**

The following day **Brickform Micro-Topping** can be stained using any one of, or a combination of the following products: **Brickform Acid Stain**, **Brickform Dye n' Seal**, **Kemiko Acid Stain**, or **Rembrandt Polymer Stain**. Refer to the appropriate manufacturer technical data sheet for application instructions. Typically acid stain colors turn out lighter and brighter than standard concrete. Therefore it is a good idea to dilute your first application with water. You can always increase the concentration of stain if you want the color to be darker.

## **Sealing**

Apply a **thin** even coat of **JS Crystal Clear Cure & Seal** without leaving puddles. A common practice is to thin down the initial coat of sealer with approximately 30% xylene. This allows the first coat of sealer to really anchor in. This also helps prevent the sealer from being applied too thickly which can create cloudy or milky spots once dried. **JS Crystal Clear Cure & Seal** should be applied with a good solvent resistant roller, or the combination of spraying with a pump up Chapin sprayer and then back-rolling out the puddles. Apply a second **thin** coat of sealer when the first coat is dry and tack free. On interior applications, the surface should be maintained with either **Kemiko Buff on Wax** or **Kemiko Mop on Wax**. The wax becomes a sacrificial top coat. If you do not maintain your interior floors with wax, the sealer will show scuff marks.