Trowel-Top™
Micro Topping
Data Sheet

CONCRETE SOLUTIONS ™
By **Rhino Linings**®

JUST ADD WATER

Part # TT

DESCRIPTION: Concrete Solutions® Trowel-Top™ micro topping is a just-add-water, polymer modified, cementitious coating designed for thin, smooth, resurfacing applications from 0 – 1/16" (0 – 1.6 mm) thick. Trowel-Top is extremely durable and bonds exceptionally well to concrete and other surfaces. It provides a very smooth finish similar to polished concrete or a skip-troweled texture finish over floors, walls, countertops, etc. It can be used to replicate venetian plaster on walls and other vertical surfaces. Trowel-Top can be tinted to a solid color, stained or dyed. For video instructions, scan the QR code or visit www.concretesolutions.com/trowel-top.

TYPICAL USES: Retail shops, hotels, offices, residential and commercial floors, walls, etc.

FEATURES & BENEFITS:
- For application over existing concrete and other sound surfaces
- Excellent for smooth, skip troweled or venetian plaster finishes from 0 – 1/6" (0 – 1.6 mm) thick
- Can be integrally colored, stained, or dyed
- Easy to use, no curing agent required
- Durable, flexible, high bond strength

CHEMICAL PROPERTIES:

Coverage Rate per Bag Mix	400 – 500 sqft (37.2 – 46.5 sm)

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier are subject to possible moisture vapor transmission or hydrostatic pressure problems. These problems can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, a moisture test is recommended to ensure that moisture content meets industry recommended standards.

SURFACE PREPARATION: Surface Preparation is often the most important part of a successful coating or resurfacing application. Surface must be clean, sound, and free from oil, dirt, waxes, or any other contaminant that may interfere with bonding. Popular methods of surface preparation include grinding, shotblasting, and/or scrubbing with detergent, acid etching, neutralizing, and pressure washing. The type of surface preparation needed will depend on the condition of the substrate to be repaired, resurfaced, textured, stamped, colorcoated and/or sealed. **For commercial and industrial indoor jobs**, grinding is required to prepare the surface. **For residential indoor jobs,** scrubbing with detergent, acid washing, neutralizing, rinsing and wet/dry vacuuming is recommended. **For most outdoor jobs,** the surface can be cleaned by detergent scrubbing, acid washing and pressure washing. The following is a step-by-step procedure.

1. Protect the walls with tape and plastic before scrubbing or rinsing.

2. Scrub and rinse the floors. First dampen the surface with water in 100 to 200 sq. ft. sections at a time using a water hose. Using the floor polisher machine, scrub the dampened surface with a strong detergent (such as Simple Green) diluted 2 to 1 or 5 to 1 with water. For oil spots use straight detergent with no dilution. While scrubbing, use a water hose and trigger gun nozzle to clean the surface behind the floor polisher. For large open areas such as a warehouse floors, etc., a 3000 psi (or higher) pressure washer with a 15 degree or spinner tip on the end of the gun can be used to clean behind the floor polisher. Rinse immediately behind the floor polisher, so the residue does not dry on the surface. Use a rubber squeegee and/or broom to keep the dirty water from running back into the rinsed clean areas. **Use a wet/dry vacuum** (one or more depending on the size of the job) to remove the dirty water and detergent from the surface. The persons scrubbing, rinsing, squeegeeing and vacuuming should all work closely together doing a section at a time. After rinsing the surface clean, check the oil spots by rubbing them with a white rag. If the rag gets dirty, it will need to be scrubbed with a heavy duty detergent using a floor polisher machine and then rinsed clean prior to using a grinder.

3. If the surface is coated with a paint or sealer, it will be necessary to remove the coating using a paint stripper, sandblaster, shotblaster or surface grinder. If a shotblaster is used, a dustless grinder can be used to clean the edges where the shotblaster cannot reach.

4. Open the concrete pores. Acid washing is recommended to etch a concrete surface when grinding, shotblasting or sandblasting is not possible or unavailable. Opening the concrete pores allows the coating material to get good adhesion or bite into the substrate. Always wear the appropriate safety protection. The proper procedure to acid wash a concrete surface is as follows:

    a. Mix a solution in a 5 gallon pail consisting of 4 parts water and 1 part muriatic, hydrochloric or phosphoric acid. ALWAYS ADD THE ACID TO THE WATER FOR SAFETY AND TO AVOID SPLATTERING.

    b. Dampen the surface with water (no puddles) before applying the acid solution.

CONCRETE SOLUTIONS® TROWEL-TOP™ *(continued)***:**

    c. Pour or spray the acid solution onto the dampened concrete surface. When spraying, use an acid-resistant pump-up sprayer.

    d. Scrub the acid solution evenly over the surface using an acid-resistant broom. Allow the acid solution to sit on the surface and work for 3 – 5 minutes etching the concrete. Do not allow any areas on the concrete to dry during the etching process. If this occurs, spray more water or acid solution to keep the surface wet.

    e. Once the acid solution stops fizzing, spray a solution of 10 parts water and 1 part household ammonia onto the acid solution to increase the pH and neutralize it prior to rinsing.

    f. Thoroughly rinse any acid residue off the concrete surface using a pressure washer. Pre-wet any surfaces the acid solution will be rinsed over. If indoors, rinse with water a section at a time and remove the water and acid solution with a wet/dry vacuum.

CRACK & JOINT REPAIR: Structural moving cracks should be repaired/treated with Concrete Solutions Crack Repair System prior to applying Trowel-Top or any other Concrete Solutions polymer concrete products. Please refer to Concrete Solutions Crack Repair Instructions for the complete and detailed procedure.

MIXING INSTRUCTIONS: Using a drill mixer, mix the entire bag of Trowel-Top with 1.5 – 2 gallons (5.7 – 7.6 liters) of water for 3 – 5 minutes. For solid colors, prior to mixing the Trowel-Top, blend 2 Concrete Solutions Integral Color Paks with the water mentioned above, then pour through a nylon paint strainer to prevent pigment streaking. After the tinted water has been strained, add the Trowel-Top and mix for 3 – 5 minutes. Additional water or Trowel-Top can be added as needed to achieve desired consistency. For smaller batches, mix by volume 1 part water to 2.5 – 3 parts Trowel-Top.

APPLICATION INSTRUCTIONS: Over rough surfaces or when Trowel-Top will be stained or dyed, it is recommended to first apply a thin coat of Concrete Solutions white Resurfacer. Lightly spray the surface with water using a pump-up sprayer. Leave no puddles. Apply Trowel-Top over the slightly dampened surface from 0 – 1/16" thick using a hand trowel or metal edge squeegee to achieve the desired finish. For the best results apply as thinly as possible. Lightly spray additional water as needed during the finishing process. If necessary, Trowel-Top can be sanded with #80 grit sandpaper or screen to remove any imperfections. Trowel-Top can also be burnished with blue, chrome, or stainless steel hand trowels for a unique, multi-colored marble finish. When applying Trowel-Top in a solid color, it will be necessary to apply a sealer before the dry Trowel-Top gets water on it to avoid bleaching of the color and to provide stain resistance. After the desired finish is achieved, let dry completely, and seal with 2 coats of Concrete Solutions sealer. For exterior applications, seal Trowel-Top with Sealcoat 1000, Stamp Concrete Sealer or Acrylic Urethane. Sealcoat 1000 or Stamp Concrete Sealer may also be used as an interior sealer; however, for the best interior finish, seal with one coat of WB Epoxy Clear followed by one coat of WB Urethane Clear.

HOW SUPPLIED: Trowel-Top is packaged in 40 lbs (18.1 kg) bags.

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

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Trowel-Top How-to Video
concretesolutions.com/trowel-top

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