



# Spray-Top®

## Micro Topping Data Sheet



Part # SP-5

**DESCRIPTION:** Concrete Solutions® Spray-Top® micro topping is a revolutionary, just-add-water polymer modified cementitious coating designed to be sprayed like a thin coat of paint over concrete, foam, and other sound surfaces. Spray-Top is used to provide a thin, smooth, polished concrete-like finish prior to applying stains and dyes. It conforms to whatever surface or texture as it is applied, leaving smooth surfaces smooth and textured surfaces textured. With Spray-Top you can restore or recolor stamped concrete without diminishing the texture of the stamped surface. Spray-Top is generally applied over old or new concrete but can also be used over other types of surfaces including foam shapes. Depending on the substrate, a prime coat may be needed prior to applying Spray-Top. Spray-Top is applied using a special spray gun and equipment which are available through Rhino Linings Corporation and many authorized Concrete Solutions distributors. A DVD is available for purchase on how to use Spray-Top. For quick video instructions, scan the QR code on the data sheet or visit the following link – [www.concretesolutions.com/spray-top](http://www.concretesolutions.com/spray-top).

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

### FEATURES & BENEFITS:

- Can only be applied with Concrete Solutions Spray-Top equipment
- Easy to use product and equipment
- Excellent for restoring faded, stained, or discolored concrete with a very thin application
- Easily restores regular or 1/4" stamped concrete
- Can be used on vertical applications
- For application over concrete, foam and other sound surfaces
- Recolors and restores stamped concrete without diminishing texture
- Use with stencils for decorative designs and logos
- Can be applied to concrete walls, floors, tilt ups, benches, furniture, etc.
- Can be integrally colored, stained, or dyed
- Durable, flexible, high bond strength

### CHEMICAL PROPERTIES:

Coverage Rate per 35 lb (15.9 kg) 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, shot-blasting 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.
- 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 Spray-Top or any Concrete Solutions polymer concrete products. Please refer to Concrete Solutions Crack Repair Instructions for the complete and detailed procedure.

**PATCHING AND RESURFACING:** Spray-Top will conform to whatever surface it is applied, showing any imperfections in the existing surface such as holes, spalls, gouges, deterioration or other surface damage. If patching is required, use Concrete Solutions Resurfacer for repairs 1/16 – 1/8" deep or Quick Set Patch Mix for repairs 1/8 – 1/2" deep to smooth out the surface prior to applying Spray-Top. After patching, it will be necessary to apply a coat of Resurfacer over the entire surface to help smooth out the patches and hide any repairs. Apply the Resurfacer as smooth as possible in the same color as the Spray-Top color to be used. Concrete Solutions Integral Color Paks are available in 30 colors to mix with the Resurfacer and Spray-Top. Mix 2 Integral Color Paks per bag of Resurfacer or Spray-Top. Custom liquid colors are available for an extra charge. When using liquid colors, mix 1 can of liquid color per bag of Spray-Top.

**MIXING INSTRUCTIONS:** In a 5 gallon pail, add 2 gallons (7.6 liters) of water, 4 ounces (118 ml) Concrete Solutions Polymer Concrete Retarder, and if a solid color is desired, 2 Concrete Solutions Integral Color Paks. Mix thoroughly using a drill mixer, then slowly add the entire bag of Spray-Top and mix for 3 – 5 minutes to achieve a lump free consistency. Next add and mix an additional 3 quarts to 1 gallon (2.8 – 3.8 liters) water. After mixing, pour the Spray-Top material through a nylon paint strainer into the stainless steel pot liner to remove any sediment that may clog the Spray-Top gun and fluid hose. Immediately rinse the strainer with water for later use. Note: To prevent the Spray-Top from sloshing out of the bucket while mixing, put the mixing paddle through the pour spout on the lid of the bucket before attaching it to the drill and secure the lid on tight. With all the ingredients in the bucket and the lid on tight you can mix at full speed without making a mess.

**To Make a Smaller Batch** - To make a smaller batch, start with 2 parts Spray-Top to 1 part water. Add a little more water as needed to achieve a paint-like consistency (same consistency as 5-gallon mix), do not make too watery. When using Integral Color Paks, mix the color paks with the entire bag of dry Spray-Top mix before adding any water. Mix the dry Spray-Top with the Color Paks using a drill motor and mixing paddle for several minutes. After mixing, pour the colored, dry mixture into another 5 gallon bucket and mix again to be sure the bottom of the bucket was mixed thoroughly before measuring out small batches.

**APPLICATIONS INSTRUCTIONS:** Surface preparation, crack repair, patching and resurfacing (where needed) must be complete. Before mixing or applying Spray-Top, choose from the most common applications below that best describes the job or conditions. Follow the instructions for the proper primer and sealer to use. For instructions on how to set-up the Spray-Top machine, see page 6.

**• APPLYING SPRAY-TOP IN A SOLID COLOR OVER UNSEALED REGULAR CONCRETE:**

For solid color applications over unsealed regular concrete, it is best to apply Spray-Top over an Concrete Solutions Polymer Concrete Bond Coat (Resurfacer) for indoor jobs, and a Broom Finish Texture Coat for outdoor jobs. If desired, Concrete Solutions MRB Primer can be used as a prime coat under the Resurfacer for extra protection against a possible moisture vapor transmission problem (see above).

**For Indoor Jobs**, apply the Resurfacer as smooth as possible using our Metal Edge Squeegee. Some jobs may require more than one coat of Resurfacer to achieve the finish desired. When dry, the Resurfacer can be sanded, if needed, using a floor polisher machine and a 60 – 100 grit sandpaper attachment to smooth out any ridges or chatter marks left from the squeegee. Once the Resurfacer dries (usually within 4 – 6 hours) Spray-Top can be applied in the color desired to achieve a smoother, more uniform finish.

**Applying Sealer Over Spray-Top Solid Color Indoor Applications** - When the Spray-Top cures for 6 – 12 hours it can be sealed using Concrete Solutions Stamped Concrete Sealer or Acrylic Urethane for a solvent-based system or Sealcoat 1000, WB Epoxy Clear and/or WB Urethane for a water-based low odor system. WB Epoxy Clear can only be used on indoor applications. The other sealers can be used indoors or outdoors. If using Stamped Concrete Sealer for the first coat, only Stamped Concrete Sealer can be used for the second or third coat. If using Acrylic Urethane for the first coat, only Acrylic Urethane can be used for the second or third coat. For the water-based sealers, Sealcoat 1000 or WB Epoxy Clear can be used as the first coat and WB Urethane can be used as the second or third coat. It is also recommended on indoor applications to apply Floor Finish as regular maintenance, when needed, to help protect the sealer and keep the Spray-Top application looking like new. All sealers should be applied over Spray-Top using an airless or HVLP sprayer to achieve the best results. Floor Finish should be applied using a rayon mop. Before Spray-Top is sealed it can stain easily, so protect it from footprints, water and spills until sealed (wipe your feet or wear booties before walking on it).

**For Outdoor Jobs** such as driveways and walkways, first do any crack repairs and/or patching required followed by a coat of Resurfacer over the entire surface to help hide the repairs. When the Resurfacer dries, apply a broom finish texture of Concrete Solutions Polymer Concrete to provide adequate slip resistance. If necessary, coarser sand can be added to the broom finish mixture to achieve the slip resistance needed, especially on a slope or hill. For pool decks, we recommend our Texture-Top or Stamp-Top systems for the best slip resistance and most decorative appearance. We do not recommend Spray-Top directly over regular concrete pool decks unless a broom finish or trowel knockdown texture of polymer concrete (or Resurfacer) is applied to provide enough texture for slip resistance.

It is also recommended to apply the Concrete Solutions Resurfacer (smooth or textured) in the same color as the Spray-Top that will be applied over it to achieve the best results. Integral Color Paks are available in 30 colors. Mix two paks per bag of Resurfacer or Spray-Top. One pack can be used for a lighter color.

**Applying Sealer Over Spray-Top Solid Color Outdoor Applications** - When the Spray-Top dries, apply two coats of the proper Concrete Solutions sealer according to the job conditions. The most common sealers used outside over Spray-Top are the Concrete Solutions Stamped Concrete Sealer, Acrylic Urethane or Sealcoat 1000. Do not allow the Spray-Top to be walked on or to get wet before the sealer is applied. The person applying the sealer should clean the bottom of their shoes with a rag before walking on the Spray-Top to avoid leaving stains or footprints. The recommended procedure for applying sealer over solid color Spray-Top applications is to use an airless or HVLP sprayer. The Spray-Top sprayer can also be used to apply the sealers where local laws permit. When using the Spray-Top sprayer to apply sealers, it will be necessary to tighten the bottom knob on the gun enough to achieve a fine spray.

Do not use a roller or pump-up sprayer to apply sealers over Spray-Top when doing solid color applications. A pump-up sprayer and roller can work for acid staining or stamped concrete applications, where more than one color is used over Spray-Top, but is not recommended for solid color applications. For all applications, a minimum of two coats of sealer is recommended. If using Sealcoat 1000 (water-based) as the first coat, the second coat should be Sealcoat 1000. If using Stamped Concrete Sealer as the first coat, only Stamped Concrete Sealer can be used as the second coat. If using Acrylic Urethane as the first coat, use Acrylic Urethane as the second coat. The best sealer to use will depend on the job application. For recommendations, please call us at (800) 232-8311.

**Applying Spray-Top Over an Existing Sealer** - Our recommendation is to remove any existing sealers to get down to the original concrete substrate before applying Spray-Top. If the existing sealer is not peeling or delaminating, it may be possible to go over it by sanding the surface with a floor polisher machine and #80 sandpaper, followed by a prime coat of Concrete Solutions WB Epoxy Clear. WB Epoxy Clear will bond to most sealers, however, going over an existing sealer with WB Epoxy Clear is at the applicator's own risk. Always do a bond test with the WB Epoxy Clear before doing the job. There is no guarantee that WB Epoxy Clear will bond to existing sealers. The best recommendation is to remove the sealer whenever possible. Allow the WB Epoxy Clear to cure at least 4 – 6 hours before applying Spray-Top over it. It is important

to apply Spray-Top over the WB Epoxy Clear within 4 – 6 hours to achieve the best bond possible. See the WB Epoxy Clear Technical Data Sheet for mixing and application instructions.

**Applying Concrete Colorcoat Over Spray-Top To Achieve a More Uniform Colored Finish** - Spray-Top is a cementitious material and cannot be guaranteed to come out or stay a uniform color on every application. Depending on the surface and how it is applied, it is possible to experience some mottling or light and dark color variations, just like with regular concrete. On outdoor jobs it is possible for the Spray-Top to darken next to joints or open cracks due to moisture. For the best uniformity, apply Spray-Top over Concrete Solutions Resurfacer mixed to the same color as the Spray-Top color. Another option is to apply Concrete Solutions Concrete Colorcoat over the Spray-Top in the same color. Apply the Concrete Colorcoat by roller or use an airless sprayer or the Spray-Top machine to achieve the best results. Concrete Colorcoat is available in the same colors as Spray-Top. When dry, the Concrete Colorcoat should be sealed with one of the recommended sealers above.

• **APPLYING SPRAY-TOP OVER REGULAR OR 1/4" STAMPED CONCRETE:**

Spray-Top can be applied directly over unsealed Stamped Concrete (that has been properly cleaned and etched) or a prime coat of Concrete Solutions MRB Primer (Moisture Resistant Barrier) can be applied to achieve the best color uniformity and protection against possible moisture vapor transmission problems from below the surface. Apply MRB Primer using a pump-up sprayer followed by a 1/2" nap paint roller to achieve a thin, even coat with no puddles (approx. 400 sq. ft. per gal.). Spray-Top can be applied over the MRB Primer within 4 – 6 hours or more depending on temperature conditions.

**If Going Over an Existing Sealer** it will be necessary to clean the surface with detergent and then to sand the sealer using 80 grit sand paper to scratch and dull the surface. Next, apply Concrete Solutions WB Epoxy Clear as a bond coat before applying the Spray-Top. It is important to apply Spray-Top over the WB Epoxy Clear within 4 – 6 hours to achieve the best bond possible. WB Epoxy Clear should bond to most sealers, however, going over an existing sealer with WB Epoxy Clear is at the applicator's own risk. The best recommendation is to remove the sealer completely whenever possible. Always do a bond test with the WB Epoxy Clear before doing the job. There is no guarantee that WB Epoxy Clear will bond to existing sealers. Do not use MRB Primer over existing sealers or Spray-Top. MRB Primer should ONLY be used as a prime coat directly over unsealed concrete.

**Application Instructions Over Stamped Concrete** - Spray-Top is used over stamped concrete to restore or change the existing color and should be applied as thin as possible to preserve the existing pattern and/or texture. Adjust the bottom knob on the gun to achieve a fine spray. Watch the Spray-Top DVD for a better understanding of how to apply Spray-Top over stamped concrete applications. When the Spray-Top has cured for at least 12 hours or more it can be acid stained or antiqued using the method described below.

**Antiquing Over Spray-Top Using Acid Stain** - If using acid stain, it can be applied directly over the Spray-Top and then rinsed by mopping with water (do not pressure wash). When dry, it can be sealed with Stamped Concrete Sealer or Acrylic Urethane or one of our water-based sealers (see acid staining instructions below).

**Antiquing Over Spray-Top using Stamped Concrete Sealer and Antique Powders** -

**Step 1** - Apply Concrete Solutions Stamped Concrete Sealer thinned one to one with acetone (where local laws permit) as the first coat of sealer over the Spray-Top. Apply the Stamped Concrete Sealer using an airless or HVLP sprayer or the Spray-Top Sprayer can be used (where local laws permit). When using the Spray-Top sprayer to apply sealers, it will be necessary to tighten the bottom knob at the back of the gun to achieve a finer spray. A pump-up sprayer and paint roller can also work over some stamping applications. Do a test area to determine the best results.

**Step 2** - When the first coat of Stamped Concrete Sealer is dry to touch, usually within 30 minutes, the antiquing color can be applied over the sealer using Concrete Solutions Liquid Release Agent and Concrete Solutions Antiquing Color Powder. Mix 1 – 4 ounces of Antique Powder to 1 gallon of Liquid Release Agent to achieve the amount of antiquing desired. Spray the liquid release, colored with antique powder, using a pump-up sprayer and allow it to puddle in the low areas of the texture. If the color is too light, add more antique powder (up to 4 ounces total). If the color is too dark, add more liquid release until you achieve the look desired. The way it looks wet, is close to how it will look when sealed. When the antiquing dries, it will look lighter in color than when it was wet. After the sealer is applied, the color should darken back to the way it looked wet. Always do a sample and have it approved by the customer before doing the job. For indoor jobs, the liquid release will take longer to dry than outdoors. After a couple of hours of drying, lay a rag over any puddles to soak up the excess release agent and/or set up a fan to blow over the floor to help dry the remaining wet areas.

**Step 3** - Once the liquid release antiquing dries, apply a second coat of Stamped Concrete Sealer thinned one to one with acetone (where local laws permit) using an airless or good quality pump up sprayer. The second coat of sealer will make the first coat tacky again allowing the antique powder to bond in-between both coats. When dry, apply 1 – 2 more coats of Stamped Concrete Sealer thinned 5 – 25% to achieve the finish desired. Always do a sample in a small area and have it approved before doing the whole job. **TURN OFF ALL PILOT LIGHTS BEFORE USING STAMPED CONCRETE SEALER OR ANY SOLVENT-BASED SEALERS.** (See the Stamped Concrete Sealer Technical Data Sheet for more information.)

**• APPLYING SPRAY-TOP BEFORE ACID STAINING:**

For acid staining applications it is recommended to apply a basecoat of Concrete Solutions Resurfacer before applying Spray-Top to cover up any patching or surface blemishes and for extra durability. Apply the Resurfacer as thin as possible (less than 1/16") over the surface using our metal edge squeegee and/or a hand trowel. Press the edge of the metal squeegee or trowel tight against the surface to achieve a thin, even coat without leaving any ridges. If ridges occur, walk out on the surface using spiked shoes to trowel them flat before they dry or they can be sanded smooth when the Resurfacer dries by using a floor polisher machine and #60 – 100 grit sandpaper. When the Resurfacer dries, usually within 2 – 4 hours, apply Spray-Top over the Resurfacer using the Spray-Top sprayer to achieve a smooth, uniform finish. Spray-Top can also be spread over the Resurfacer using our metal edge squeegee. The powder integral colors when added to Spray-Top can streak when squeegeed or troweled. This method leaves more of a marbling appearance instead of a uniform appearance. The coverage rate should be approximately 400 sq. ft. or more per bag of Spray-Top. Allow the Spray-Top to cure for at least 12 hours before applying the acid stain.

**Applying Spray-Top Over An Existing Sealer Before Acid Staining** - Our recommendation is to remove any existing sealers to get down to the original concrete substrate before applying Spray-Top. If the existing sealer is not peeling or delaminating, it may be possible to go over it by sanding the surface with a floor polisher machine and #80 sandpaper (on smooth surfaces), followed by a prime coat of Concrete Solutions WB Epoxy Clear. Always do a bond test with the WB Epoxy before doing the job. WB Epoxy will bond to most sealers, however, going over an existing sealer with WB Epoxy is at the applicator's own risk. There is no guarantee that WB Epoxy Clear will bond to existing sealers. The best recommendation is to remove the sealer whenever possible. When the WB Epoxy has dried for 4 – 6 hours, apply Concrete Solutions Resurfacer followed by Spray-Top for the final coat. Do not allow the WB Epoxy to cure more than 6 hours before applying Resurfacer. Allow the Resurfacer to dry 4 – 6 hours before applying the Spray-Top. See the WB Epoxy Clear Technical Data Sheet for mixing and application instructions.

**Applying Acid Stain Over Spray-Top** - When staining over Spray-Top, always do a sample and have it approved by the customer before doing the job. Acid stains can be diluted from 1 to 20 parts water to 1 part acid stain when staining over Spray-Top. More water will create a lighter stain color and less water will create a darker stain color. For the best results, spray a thin coat of water over the Spray-Top ahead of the acid stain to avoid leaving spray spots. The water gives the acid stain a chance to disperse more evenly over the floor before it starts to react. Another way to avoid spray spots is to hold the tip of the pump-up sprayer close to the surface while spraying, within 6 – 12 inches.

**To begin staining**, work in approximately five foot sections at a time spraying water and then acid stain. Be careful to keep a wet edge until reaching the designated stopping point. Besides spraying the acid stain, try brushing over the stain in a circular motion using an acid resistant broom or scrub brush and then immediately spraying more stain behind the broom to eliminate any broom lines. Another method is to spray the water and acid stain then following immediately behind with a special faux sponge roller (available through Rhino Linings Corporation and its authorized distributors). **This method using the faux roller is demonstrated in our Spray-Top DVD presentation.** After using the faux roller it is recommended to spray more stain or water behind the roller to move the stain around. When the faux roller is used by itself it may leave a leopard spot type pattern, which may or may not be the desired look.

**For a multi-color effect**, apply two colors of acid stain at the same time using two acid resistant pump-up sprayers or allow one color to dry and then rinse with a clean mop before applying a second or third color of acid stain. By wearing soccer shoes with the smooth, raised white nubs at the bottom, it is okay to walk on the wet acid stain to apply other colors. The important thing is not to twist your feet to avoid damaging the Spray-Top and to spray more stain where you walk to cover the round marks left from the shoes. **DO NOT** use shoes with black nubs as the acid can attack and leave black marks.

**IMPORTANT** - ALLOW THE ACID STAIN TO DRY FOR AT LEAST A COUPLE OF HOURS OR MORE AFTER EACH COAT BEFORE RINSING TO AVOID REMOVING TOO MUCH OF THE STAIN BEFORE IT CAN REACT WITH THE SPRAY-TOP. DO SAMPLES BEFORE EACH JOB TO TEST RESULTS.

**Rinsing the Acid Stain** - If the acid stain was diluted with lots of water up to 20 to 1, a light rinsing with a mop should be sufficient. The more concentrated the acid stain, the more rinsing will be required. Some applications may need to be mopped 2 – 3 times with clean water to completely remove the residue. **DO NOT USE A POWER SCRUBBER, STIFF BRUSH, A WATER HOSE OR PRESSURE WASHER TO REMOVE THE RESIDUE.** The rinse water will eventually soften the Spray-Top making it easier to damage, so light rinsing with a mop is all that is recommended. Once the rinse water dries the Spray-Top will harden up again. While rinsing, do not roll or drag the mop bucket over the wet areas of the Spray-Top. Also, try not to walk on the wet areas until dry. If more acid staining is required, more coats can be applied using the same or different colors at various dilution rates to achieve the desired result.

**A Faster Tip for Removing the Residue** - If a lot of acid stain residue is on the surface, a faster method of rinsing is to lightly wet the surface with water and then to use a sponge squeegee to remove the heavy residue followed immediately with

the mop to remove any squeegee marks before they can stain into the floor. Squeegee the residue into a pile onto some plastic off the stained floor area and pick it up using a wet/dry vacuum. Dispose of the residue according to local laws.

**Sealing Over the Acid Stain** - For interior and exterior jobs, once the acid staining is completed and the surface is rinsed and dry, the final step is to apply a sealer to protect the Spray-Top and acid stain. For a solvent-based sealer apply either Concrete Solutions Stamped Concrete Sealer or Acrylic Urethane. The first coat for either sealer can be thinned 25 – 50% with acetone where local laws permit. The second coat should be applied straight or thinned only 5 – 10%. NEVER APPLY ACRYLIC URETHANE OVER STAMPED CONCRETE SEALER OR VISA VERSA. The best method for applying sealers is to use an airless or HVLP sprayer to achieve the best finish possible. If using a pump up sprayer and roller method the results may vary. Always do a sample to achieve the desired results before sealing the entire floor.

**If an Odorless Water-Base Sealer is Desired**, especially for indoor jobs, Sealcoat 1000 or WB Epoxy Clear can be used as the prime coat followed by WB Urethane as the topcoat. WB Epoxy Clear will work directly over most stain colors but should not be applied over green, avocado or blue stains as it can change the color. For these colors use Sealcoat 1000 as the first coat followed by WB Epoxy Clear or WB Urethane as the second coat. FOR THE BEST RESULTS, APPLY THE SEALERS IN A THIN EVEN COAT USING AN AIRLESS OR HVLP SPRAYER (ESPECIALLY WHEN USING SEALCOAT 1000). A pump-up sprayer, followed by back rolling with a 1/4 – 3/8" nap paint roller may also work for some applications. Do a test area to check the results before doing the entire job. Concrete Solutions SB Urethane or HP Urethane can also be used for extra durability over the WB Epoxy Clear where solvent based sealers can be tolerated. (Read the Technical Data Sheets for each sealer prior to use).

**Sealer Maintenance for Indoor Jobs Only** - Once the sealers are applied on indoor jobs, it is recommended to protect and maintain them with Concrete Solutions Floor Finish. Concrete Solutions Floor Finish can be applied as a maintenance coat, whenever needed, to protect the sealers and acid staining and keep the floor looking like new. The Floor Finish is a polish that is economical and easy to apply by using a rayon mop. Do not apply Floor Finish outdoors. For more information see the Concrete Solutions Floor Finish Technical Data Sheet.

#### • APPLYING SPRAY-TOP OVER STENCILS, LOGOS AND MODELLOS:

For this application apply a Bond Coat (Resurfacer) over the area to receive the stencil or modello. When dry in 2 – 4 hours apply Spray-Top to achieve a smooth finish. Apply acid stain or any coloring method over the Spray-Top and let dry. For the best results, apply WB Epoxy Clear (indoors only) to seal and protect the stained or colored Spray-Top and allow to dry for at least 4 – 6 hours when 60°F (15.6°C) or above or 8 – 12 hours between 50 – 60°F (10° – 15.6°C). Lay the stencil or modello over the WB Epoxy Clear and secure in place. Apply Spray-Top over the WB Epoxy Clear and Modello within 6 – 12 hours after the WB Epoxy Clear was applied. Apply over the stencil or modello in a thin coat so the outline of the stencil or modello can be seen through the Spray-Top. Allow to dry for 12 hours or more before applying stains, dyes or antiquing colors.

If the stains will be applied thin, without puddling, it may be possible to stain over the Spray-Top within 4 – 6 hours of drying or sooner. If liquid colors and stains are allowed to puddle over Spray-Top before it has a chance to fully cure, small blisters can occur. If your application requires puddling, try to remove the puddled areas within 30 – 60 minutes to avoid the chance of blistering. Once the coloring process is completed and rinsed if needed, remove the stencil or modello and apply the final coat of sealer. Concrete Solutions WB Epoxy Clear is recommended as the topcoat for indoor applications to provide the best protection and durability.

WHEN SEALING OVER GREEN OR BLUE ACID STAIN COLORS it will be necessary to apply Sealcoat 1000 or Stamped Concrete Sealer as the first coat followed by WB Epoxy Clear as the second coat. Concrete Solutions Floor Finish can be used over the WB Epoxy Clear as a maintenance coat, especially on high traffic jobs. For more information on our Modello System and to choose borders and patterns, please visit our website at [www.concretesolutions.com](http://www.concretesolutions.com).

#### • APPLYING SPRAY-TOP OVER VERTICAL SURFACES:

Spray-Top can be applied over walls and other vertical surfaces after the proper surface preparation. It works the best on vertical surfaces when mixed with 9 – 10 quarts of water per 35 lb bag (instead of 10 – 12 quarts for horizontal applications). When dry, apply a sealer over the Spray-Top to prevent water stains. Concrete Solutions Sealcoat 1000 or Stamped Concrete Sealer can be used.

**SPRAY-TOP EQUIPMENT INSTRUCTIONS:** The Spray-Top equipment should be connected to an air compressor set at 80 psi. The regulator gauge on Spray-Top pressure pot should be set between 40 – 50 psi. The Spray-Top machine requires a gas or electric powered compressor with 9 – 11 SCFM which is not included in the Spray-Top equipment package. If using an electric compressor it should have at least a 33 gallon tank and 120 – 150 psi air pressure. When Concrete Solutions Spray-Top equipment is set up properly and ready for spraying (see instructions that come with the equipment), begin spraying

Spray-Top to achieve the finish desired. Adjust the fan pattern on the spray gun and volume of material coming out, by using the knobs at the back of the gun. The top knob will control the width of the fan and the bottom knob will control the volume of material coming out. Tighten the bottom knob to achieve a fine spray pattern and loosen it to achieve a heavy spray pattern. Hold the gun approximately 2 – 3 feet from the surface you are spraying to achieve a uniform finish in a thin, even coat. Keep the fan spray straight up and down and even with the surface. Check the fan spray by spraying on some plastic or cardboard to be sure it is even all the way across and not spraying thicker on 1 side or in the middle. If the Spray-Top is applied uneven, thicker areas can dry slightly darker than the thin areas creating a striped effect. When going over stamped concrete surfaces, apply Spray-Top as thin as possible to preserve the existing texture. If Spray-Top is applied too thick in one coat, small micro cracks can appear. If a thicker application is desired allow the first coat to dry to touch, then a second coat can be applied directly over the first. If the surface is shot-blasted or too rough for Spray-Top to fill in smoothly, apply Concrete Solutions Resurfacer as a basecoat before applying Spray-Top.

**Cleaning the Spray-Top Machine:** After using the Spray-Top machine, immediately rinse water through the hose and gun to prevent the Spray-Top from setting up and clogging the hose. To clean the Spray-Top machine, release the air from the pressure pot until the gauge on top of the lid is at zero. Remove the lid off the pressure pot and wipe off the shaft (coming off the lid) with a rag, then remove the bucket of Spray-Top. Place a bucket with at least 2 gallons of water in the pressure pot. Secure the lid back on hand tight. Hook up the air hose from the compressor to pressurize the pot and spray water through the hose and gun until clean. **IT IS BEST NOT TO LEAVE THE SPRAY-TOP IN THE HOSES FOR MORE THAN 10 MINUTES AT A TIME. SPRAY THE GUN PERIODICALLY TO ALLOW FRESH MATERIAL TO FLOW THROUGH THE FLUID HOSE FROM THE PRESSURE POT. BE AWARE OF YOUR CONDITIONS ESPECIALLY ON HOT DAYS, IN THE DIRECT SUN OR WHENEVER THE HOSES ARE HOT.** If the machine will be sitting for longer than 10 minutes without being used, pull the trigger on the gun every 5 – 10 minutes to allow fresh material to flow through. It is also recommended to run some water through the fluid hose and the gun between batches to keeping them clean and working properly.

**HOW SUPPLIED:** Spray-Top is packaged in 35 lb (15.9 kg) bag.

**SLIP/FALL PRECAUTIONS:** In all outdoor applications, Concrete Solutions recommends applying Spray-Top over a textured surface such as Broom Finish or using slip resistant granules and using slip resistant granules on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit may be broadcast into the Spray-Top or into the first coat of the sealer to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Rhino Linings Corporation or Concrete Solutions representatives will not be responsible for injury incurred in a slip/fall accident.

**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.

**For Your Protection:** The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2014 Rhino Linings Corporation. All rights reserved.



Concrete Solutions by Rhino Linings  
 7455 Carroll Road, San Diego, CA 92121  
 1-800-232-8311 • Fax 858-566-4346  
 www.concretesolutions.com



Spray-Top How-to Video  
[concretesolutions.com/spray-top](http://concretesolutions.com/spray-top)