

SOUTHERN GROUTS & MORTARS, INC.

ONE STEP SPRAY DECK™

INSTALLATION MANUAL

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ONE STEP SPRAY DECK

EXCELLENCE IN DECK SURFACES

Transform any new or existing concrete surface quickly and economically with One Step Spray Deck. A wide variety of colors and an unlimited number of patterns provide a custom look for any surface, vertical or horizontal.

Re-surfacing with One Step Spray Deck is faster and more economical than removing and replacing old worn out concrete surfaces. And it requires only nominal maintenance to keep a like-new appearance.

One Step Spray Deck is waterproof, stain resistant and unaffected by most chemicals. It's tough enough to withstand harsh freeze/thaw conditions. It's also slip-resistant yet comfortable to bare feet.

Now you have a beautiful alternative to the problem of deteriorating concrete surfaces. One Step Spray Deck was engineered for cost effective installation and a durable finish. The distinctive colors and patterns will add long lasting value to your property. It's the perfect resurfacing solution.

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DECK INSPECTION

When inspecting a deck the following conditions need to be taken into consideration before a price is determined.

- a) How much time and material will be needed to cover and protect surrounding areas, such as the house, screens, shrubs, grass, pool tile and pool water from over spray.
- b) Check surface for low areas where ponding may occur. Remember that One Step Spray Deck is a decorative topping and will follow the contours of the existing surface.
- c) Do a sound test on the surface to check for hollow spots, which may be hidden under the surface and cause a failure in the future. This can be done by using a hammer or pole and lightly tapping the surface and listening for a hollow sound (**if areas are found they must be repaired**).
- d) Look to see how far away the electric and water is from the work area.
- e) Check to see how much time is needed to clean the surface.
- f) Look for cracks in the surface to determine if more expansion joints may be needed to minimize future cracking.
- g) Cracks **cannot be guaranteed** from coming back and care should be taken to either hide them in a pattern or fill them in.
- h) Measure the surface to be textured. To determine a price figure in material cost, labor cost, and profit. The past has shown that one One Step Spray Deck kit will cover 600 square feet. The kit consists of three 50 pound bags of powder, one five gallon of spray deck bonding agent, and one five gallon pail of Color Guard Plus sealer.
- i) This is a typical time frame to do a 600 square foot deck (drying time may increase project hours).

a: cleaning decks surface	2 hours
b: preparation to surface	2 hours
c: protecting area	1 hour
d: texturing deck*	1 hour
e: cleaning texture for Color Guard Plus	2 hours
f: sealing deck two coats Color Guard Plus	2 hours
g: clean up	1 hour

11 hours

*add two hours if a pattern is to be incorporated into the deck surface.

SUGGESTED EQUIPMENT LIST

*Depending upon application system, this may not include all necessary tools.
There may be some additional tools required.*

6' Roller Pole

Machinery

Air compressor
Pressure Washer 2500-3000 psi
½" Variable Speed Drill (6amp)
Mixing Paddle
Hopper Gun and Air Hose
Gas or Electric Leaf Blower
4" and 7" Angle Grinder
4" and 7" Diamond Blades

Personal Equipment

Golf Shoes
Respirator
Knee Pads
Dust Mask

Paint Equipment

Color Tint Kit
Paint Shield
2" Paint Brush
½" Phenolic Nap Roller
9" Roller Frame

Trowels

18" x 4" Square Finishing Trowel
16" x 4" Round Pool Finishing Trowel
Margin Trowel
Squeegee

Paper & Tape Products

½" and ¾" Strapping Tape (one case)
2" Masking Tape (one case)
Six Rolls 18" x 60' Masking Paper

Miscellaneous Equipment

10' x 10' Drop Cloth

18" Floor Scraper
Push Brooms (soft & stiff bristle brush)
Two 100' Heavy Duty Extension Cords
Utility Knife
Two 50' Water Hoses
Spray Nozzle

ONE STEP SPRAYDECK PREPARATION

Surface Preparation is the most important step in the guarantee so that there will be no failure. For proper preparation the following steps must be taken.

1. Degrease surface
2. Acid etch properly
3. Neutralize acid
4. Rinse thoroughly
5. Shot blast preparation where applicable

If these steps are taken you have prevented all the major problems that cause failure. If these steps are not done the risk of failure becomes extremely high.

1. Degreasing the surface

The surface should be pressure cleaned to remove any excessive loose dirt from the surface. If any areas appear to have Mildew (algae) present which can be recognized as green, or brown / black areas on the surface, (these are most likely to be in damp or shaded areas) they should be treated with liquid pool chlorine (bleach). Then a solution of Tri Sodium Phosphate (TSP) mixed with water should be broomed over the surface and thoroughly rinsed. (This kills the mildew pores and removes oils and dirt from the surface.

2. Acid Etching

When applying acid always wear proper safety equipment (rubber boots, eye protection, and rubber gloves). Muriatic Acid should be mixed at 8 to 1, which is 8 parts water to one part acid. This is only a guide, a weaker or stronger solution may be required. This can be determined by how tightly the pores of the concrete are. **Caution: acid should always be added to water.** If water is added to acid a violent reaction may occur causing the acid to splash out and cause injury. Be sure to wet shrubs, plants, and grass before applying acid. This will assure that any acid falling on these plants will not cause permanent damage.

The acid solution should be put into a plastic sprinkler can and applied with a swinging motion making sure to wet the entire area. You should see a smoking effect when the acid is applied. Any area that does not smoke is an indication that there is something still on the surface that must be checked and re-cleaned

to assure proper adhesion. After the acid is applied use a stiff broom and go over the complete surface to assure total coverage.

The acid should then be neutralized and rinsed off. A pressure cleaner should be used over the whole surface to remove any other foreign material that is left on the surface.

By following these steps you will end up with a surface that is ready for a One Step Spray Deck System.

3. Shot Blast Cleaning

The shot blast cleaning method should be utilized when heavy coatings or build up are present. This cleaning method is best used for large commercial projects.

4. Crack Repair

Before starting any crack repair it should be explained that **there is no guarantee that the crack will not come back.**

In most applications cracks can be incorporated into a tape design that allows the crack to be less noticeable.

All cracks large enough to get some type of crack repair material into the opening should be repaired. They must be dry and free of dust, dirt, oil, grease, and other contaminants. A repair should not be attempted if the substrate is wet or frozen. The material used to make the repair also must be checked to see that One Step Spray Deck bonds properly and that the Color Guard Plus adheres as well.

If a crack follows a relative straight line the crack can be filled and a control joint may be cut alongside it in order to relieve the stress. This will cause the crack to move to the area of least resistance and cause it to follow the control joint in most cases.

Always tell the homeowner up front that cracks can come back. All that you are attempting to do is make them less noticeable.

- SGM One Step 1100 Crack Suppression and Waterproofing material works very well.

Application

One Step Spray Deck, when applied from a hopper gun, is a decorative concrete topping. It is not designed to eliminate low spots in the concrete or other noticeable flaws. The spray deck will follow the contour of the surface, which it is going over. These flaws in the concrete may telegraph through the texture and become noticeable. It needs to be determined at this time if a base coat needs to be applied. If the surface is consistent in texture it normally does not require a base coat. Rule of thumb: if in doubt, base coat.

Protection

Care needs to be taken to protect the surrounding environment. All plants need to be covered, preferably with cloth (this allows the plants to breath and causes the least damage). The house and screens need to be covered at least three feet above the surface to be sprayed. This will prevent over spray from going on the surfaces which when dried can be very difficult to remove. The tile on the pool should be covered and the excess paper should be allowed to extend into the pool. This will minimize the over spray going into the pool. The deco drain and expansion joints also need to be covered. They are made of plastic of which the spray deck will chip off of in the future. Plastic is oil based.

Setup

A spot where there is access to electric and water as close to the area to be textured is best. This is the only spot that you should get on and off the deck. Put a piece of carpet down to wipe your feet and thus reduce the amount of dirt that is carried back on the deck.

Color Guard Plus

One Step Color Guard Plus is a unique flat finish water base penetrating stain/sealer, designed to be used over the One Step Spray Deck System that forms a tough, long lasting finish. It is available in 15 different colors plus white and gloss clear. The Color Guard Plus can also be used by itself to go over Kool Decks and driveways. When going over previous sealed or painted surfaces a test area should be selected and a sample of the sealer needs to be applied and checked for proper adhesion.

Base coat

A base coat should be used when the surface to be textured is not uniform. This can be done by taking the One Step Spray Deck dry mix and the spray deck resin and mix until a soupy consistency is achieved. Mix one 50 pound bag of dry powder with 2 gallons of liquid resin. Mix until a lump free consistency is achieved. Depending on the weather it may require adding more liquid resin to achieve a soupy mix. This material should then be poured on the surface and spread over the surface using a trowel or squeegee. This material needs only be applied thick enough to fill the imperfection in the surface. Depending on how rough the surface is you will need about 300 square feet with every 50 pound bag of dry mix. After applying the base coat it needs to be left to dry. Then a scraper should be used to lightly go over the surface to remove any ridges that were made from applying the base coat.

Taping

A filament tape is recommended to make various patterns on the surface. This serves a number of purposes: gives the look of grout lines, it gives water a way to run off, breaks up the surface which allows imperfections in the concrete to be less noticeable, and allows the person shooting the texture to be more consistent in the application.

- 1) Making a tile pattern can easily be done by deciding first what size tiles are desired. Then cut two pieces of wood to the length of the tile. Use them in place of a tape measure to assure that the same measurement is achieved. Start by finding the center of the area and place the tape down at one end and then pull it to the other end (the tape will hold a straight line).
- 2) A random pattern is also very common and is achieved by starting in one corner and placing the fiber tape in various directions. The desired size can vary depending on effect desired. A common practice is the smaller the area the smaller the designs.

Mixing (for spraying texture)

Start with a clean five (5) gallon pail; thoroughly mix on (1) fifty (50) pound bag of One Step dry powder with approximately one and a half (1 ½) gallons of liquid resin until lump free. Normal mixing time is two (2) to four (4) minutes. The liquid resin should be placed into the five gallon pail and while mixing liquid the dry powder should be added. **Only mix the amount of material that can be sprayed within 20 to 30 minutes.** High temperatures and humidity will affect the work time. Let mix; set for two minutes, then remix for one minute. If material does get thick before all can be sprayed it can be retempered by adding more One Step liquid resin. A zip lock baggie filled with ice can be placed in the liquid resin in order to gain a longer pot life.

Hopper Gun

Variations in the size of the orifice to be used, the air pressure and the trigger adjustment will cause a variety of different textures. One should take the time to try some of these different textures. A common setting used is the second to the largest orifice, with a full pull on the trigger and air pressure of six (6) to eight (8) pounds. **We need to note that even though the air pressure is low the air flow is more important and needs to be five (5) CFM. or more in a continuous flow.**

Spraying Texture

(Coverage – 200 square feet per 50 pound bag)

With the hopper set at the setting to give the desired texture fill the hopper with the One Step spray deck material that has been mixed to a pancake batter. Holding the hopper about two feet away from the surface using a circular pattern

apply the texture material covering about 70 to 80 percent of the surface. This will leave little puddles of material on the surface. Using a pair of golf shoes will allow the applicator to walk over the sprayed surface and not smear the spraydeck. This person then takes a trowel and lightly flattens the surface and knocks down the spray deck. This can be done as soon as the material is sprayed, but may take longer. To determine if the material is ready to knock down, (a change in the appearance of the material is evident from wet to dry in approximately 2 minutes), lightly hit the surface with the trowel and check to see that it is not sticking to the trowel but causing a smooth knock down. Even though the golf shoes prevent smears they can leave spike marks. To minimize this condition one needs to avoid walking on the texture that has been troweled. After the applicator has sprayed a pail of mixed material the hopper needs to be rinsed with water to assure that the material left in the hopper does not harden and you continue to get an even dispersion of material. Care should be taken that as soon as spraying the texture and the knock down are complete the equipment is cleaned.

Cleanup

Remember this is a very important step and proper time should be given to cleanup prior to sealing the surface with Color Guard Plus. Make sure the surface is totally dry and then remove any taped pattern that may have been made. Deco drains need to be cleaned and retaped to prevent sealer from getting on them and causing chipping of material in the future. After all the tape and protection paper has been removed the surface needs to be swept off. Then, using a scraper, lightly run it over the whole surface to remove any burrs that may have been left by the trowel. The area should then be swept again. Then use a blower and blow the surface clean of little chips and dust.

Applying Color Guard Plus Sealer

(coverage 200 square feet per gallon)

Color Guard Plus needs to be mixed thoroughly to assure that any settling has been mixed. This material **should not be applied** over any surface when

temperatures are below 45 degrees Fahrenheit. If the surface is hot it can be cooled by dampening the surface with water making sure not to leave any areas totally wet. Color Guard Plus can be applied using a 3/8" or 1/2" nap roller cover.

The first coat of sealer can be cut with up to one pint of water per gallon of sealer to achieve better penetration. Due to the absorption rate of the concrete the first coat of sealer may look streaky; this is normal. When the second coat is applied after the first coat is fully dry, about 2 to 4 hours, it should be done using the Color Guard Plus straight. Light foot traffic can be done about 3 hours and heavy traffic after 48 hours. High Humidity and other weather conditions will cause slower curing time.

Maintenance

One Step Spray Deck System maintenance is done by rinsing the surface with water from a garden hose and a light sweeping. Due to the fact that One Step System is resistant to chemicals when more difficult stains do appear they can usually be removed with no harm to the surface. The surface may also be cleaned using a pressure cleaner.

ONE STEP SPRAY DECK SYSTEM RESURFACING & RESTORATION PRODUCT LINE THE PERFECT RESURFACING SOLUTION

One Step Spray Deck Dry Powders

Description:

One Step Spray Deck Powder is a special combination of unique blends of mineral aggregates and the highest quality Portland cements available. One Step Spray Deck Powder is also available in pre-blended colors using the highest

quality pigments to produce the range of colors as shown on our color selection chart.

Product Use:

One Step Spray Deck Powder mixed with One Step Liquid Resin may be applied as a skim or base coat to resurface new or existing surfaces.

One Step Spray Deck Powder may be applied with an air hopper texture gun to achieve a unique knock down texture finish.

One Step Spray Deck can be trowel applied to achieve a hand-crafted, tile slate or smooth textured finish. NOTE: We recommend adding a One Step non-skid additive to the finish sealed coating (Color Guard "Plus" Clear).

Packaging:

One Step Spray Deck Powder is available in 50 pound bags.
56 bags per pallet.

One Step Spray Deck Resin "Ready to Use"

Description:

One Step Spray Deck Resin "Ready to Use" is a blend of polymers and special additives combined in a ready to use formula.

Product Use:

One Step Spray Deck Resin "Ready to Use" may be used as a bonding agent or as an admixture to One Step Spray Deck Powder.

Packaging:

One Step Spray Deck Resin "Ready to Use" is available in 5 gallon pails.
(36-5 gallon pails per pallet)

Color Guard "Plus"

Description:

Color Guard "Plus" is a unique water based penetrating stain/sealer that forms a tough, long lasting finish that is available in fifteen (15) different colors. White and Clear are also available.

Product Use:

Color Guard "Plus" may be used over One Step Spray Deck texture or hand-crafted smooth textures and properly prepared garage floors, asphalt, carports, sidewalks, patios, drive ways and block walls (Interior and Exterior).

Packaging:

Color Guard "Plus" is available in five (5) gallon pails.
36-5 gallon Pails per pallet

One Step Reusable Templates

Description:

One Step Reusable Templates are fast and easy stencils that help you create beautiful patterns of your textured surfaces. Templates are made of 1/16" poly tough plastic for long life and accurate forms.

Product Use:

Templates may be used to create a pattern over new or old concrete surfaces. Let dry 10-20 minutes, then remove. Templates are easily cleaned with warm soapy water for re-use.

Packaging:

One Step Reusable Templates are available in nine (9) different patterned styles.

One Step 230 Joint Sealant

Description:

One Step 230 Joint Sealant is a single-component, non-sagging, rapid skinning, low odor, weather resistance caulk with high elastomeric qualities. One Step 230 Joint Sealant is easy to apply and water cleanable.

Product Use:

One Step 230 Joint Sealant can be used for caulking of expansion and contraction joints up to ¼".

Packaging:

One Step 230 Joint Sealant is available in 12 ounce tubes.
12-12 ounce tubes per carton.

The Hopper Kit Complete – "Texture Gun"

Description:

The Hopper Kit Complete "Texture Gun" has a large plastic hopper made of high impact plastic for lightness and durability. The hopper holds up to 1 ¾" gallons of liquid. It has a 45 degree offset connector, four (4) spraying nozzles and a circular front plate.

Product Use:

The Air Hopper Kit Complete "Texture Gun" may be used to spray One Step Spray Deck mixture on horizontal and vertical surfaces with ease.

Packaging:

The Air Hopper Kit Complete "Texture Gun" is approximately 7 pounds and comes packaged complete in a box.

Pattern (Filament) Tapes

Description:

3M Pattern Tape is a glass filament reinforced tape with a synthetic rubber resin adhesive.

Product Use:

3M Pattern tape may be used for designing various patterns.

Packaging:

3M Pattern Tape comes in 1/2" and 3/4" 60-yard rolls. (case only)

3M Masking Tape comes in 2" 60 yard rolls. (case only)

1/2" Pattern Tape (72 rolls per case)

3/4" Pattern Tape (48 rolls per case)

2" Masking Tape (24 rolls per case)