



## **Sand-Rich® Installation Guide**

1 of 5

### **Installation Tools you will need:**

Two 3/16" notched hand trowels or 3/16" notched rubber squeegees. One electric drill with a small paint-mixing paddle typical for use with a one gallon pail. Three 1-quart size plastic measure cups. One 2-gallon pail. A plastic measuring pail. **Misc:** Rags, Scissors, disposable gloves, water, simple green, duct tape, 3 clean 5 gallon pails, small paintbrushes, one small scraper, and garbage bags. Plastic cups. **We recommend using our complete SandRich tool kit.**

### **Surface Preparation:**

Surface must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matter, by pressure washing, chemical or mechanical abrasion. Install over a dry surface and remove dust from all surfaces immediately prior to application. For more complete surface prep instructions, refer to our PerfectPrimer application guide.

### **PerfectMembrane® application:**

Apply the PerfectPrimer® or PerfectMembrane system as to prime/seal/reinforce, or waterproof the substrate as per our product instructions guide.

**Note: When installing SandRich over a tile deck:** Lightly sand the floor to scuff the tile surface. Then wipe the deck down with Denatured alcohol. Apply one very thin coat of PerfectPrimer to deck. Fill the grout joints to level the surface. For larger areas, it is easier to spread a self-leveling cement with a squeegee over the entire floor and then pull it tight to the floor to fill the joints and low spots. Make certain to damp mop the grout or Self leveler powder from the deck. Apply PerfectMembrane® as desired. Then apply the SandRich® system.

### **Sand-Rich® Decking Application, Day One:**

- Be sure to plan out your staging area before beginning your work. As work progresses, this will be vital.
- Use tape to mask areas as needed. For perimeter edges that do not terminate at a vertical wall, apply Duct tape to the outer edge, with the glue side facing the area to be done. Apply the tape an inch higher than the deck surface to create a "Dam wall" to contain the SandRich from dripping down over the edge. Make certain to remove all tape as soon as the SandRich is holding its form. The tape will be very difficult to remove once the materials have cured.



## Mixing & Application Instructions

2 of 5

Pour SandRich® adhesive “Part A”, by equal weight or volume (1:1) together with “Part B” into a clean one gallon pail. Using a “Jiffy Paddle” on a *low speed* electric drill, for 1-2 minutes. **Note:** Never mix more than one gallon of adhesive at a time.

Spread adhesive onto deck within 5-10 minutes, using a 3/16” notched squeegee or trowel.

Once mixed, pour the blended adhesive out in an even line or an “S” curve pattern across the area to be surfaced. Pull corners and edges with a 3/16<sup>th</sup> notched hand trowel for accuracy and neatness, and then spread the material evenly across the desired area where sand will be applied.

- Once the adhesive has self-leveled, (60 seconds) apply aggregate as below to complete saturation. Add aggregate where necessary into wet spots as they appear.
- When applying sand to the adhesive with the Sand-Rich® aggregate, use 1 quart shake cups (typically a 1 quart painter’s disposable plastic measuring cup). You will find this is the easiest method of application.
- When applying sand, work from edges and corners, inwards to the job “field”. Apply multiple lightly feathered coats. Do not “dump” sand into aggregate. Keep cup in motion before allowing the sand to pour out, and keep it in motion until after you stop pouring. Do not let aggregate clump in large piles.
- Allow aggregate time to settle into adhesive (about 5 minutes). Wet spots will then appear. At that time, repeat light sanding into wet spots until there is evenness. Where adhesive is thick, area will continually “wet” until it is saturated with aggregate.
- Continue this process throughout the sand application portion of the job. Always make sure your tools stay clean, and your trowel teeth are still intact. Wipe them every now and then to keep them in working condition.
- Always leave a minimum 6”-8” “wet edge” pulled paper-thin at the area perimeter. Then pour the next batch into the feathered edge of the last pour.
- Clean up using Simple Green Wipes or water before resin cures.



## **Sand-Rich® Decking Application, Day Two**

3 of 5

- Use a blower, vacuum or hard bristle broom to sweep excess sand for reclaim. You will want to reclaim as much sand as possible to use it for your touch up and repairs.
- Examine all areas of the job; you will be looking for any bald spots, hills or unevenness. You may use a steel blade trowel to scrape the surface smoother if you prefer. SandRich will wear down smoother naturally after a month or so.
- To repair these small “Holidays” or “Bald Spots”: Spread a small amount of our TopSealer® to the area, and then apply additional sand lightly in the repair area. Once dry, remove excess aggregate. Re-sand imperfections if needed. In certain cases, if an area cannot be repaired with TopSealer® and sand, you can mix a small amount of adhesive to taper any severe unevenness. Simply spread adhesive and apply sand as needed.
- To smooth the feel of the Sand-Rich deck surface after you have removed the excess or loose aggregate, simply scrape deck with a metal scraper blade, or go over the deck with a drill or belt sander using a # 60 pad. Use the sander to lightly file down just the high points in the aggregate, or as desired.
- When all areas are smooth and excess sand has been collected, apply one saturation coat of TopSealer the entire job and back-roll it with a standard 3/8” roller. Do not let sealer puddle.

**Notes:** Never apply TopSealer over a wet deck, or when there is high relative humidity (above 70 %,) or when it might rain. Keep water off the deck in general for at least 12 hours after applying the sealer. If not, moisture can become trapped in the sealer and cause “clouding”. If clouding does occur, wait for a dry day. Wash the deck with MEK to remove clouding. Then, apply new TopSealer with a light sprinkling of sand over the deck.

- Once the job is dry, you need perform any trim work by applying duct tape directly on the Sand-Rich® floor to make a nice, even line. This will make the job look neat and polished.

**Notes:** Apply SandRich adhesive only when ambient temp is above 65°F and substrate is above 60°F. All tools and equipment should be cleaned continuously during the application, and upon completion, before the system gels. Use “Goo Gone” or “Simple Green”.



## **Sand-Rich® FAQ'S\_**

4 of 6

Touching up or repairing Sand-Rich is a simple procedure. That is because of the way because of the way that Sand-Rich has been engineered. Remember that with Sand-Rich, any component can be applied to adhere to any other layer in the system, in any order and at any time. This is true for the life of the product.

### **What do I do if the aggregate is missing to too thin in spots?**

This can be recognized when the white primer coat or substrate is visible in those spots. To fix those areas: Apply the blended “A” and “B” adhesive. Broadcast aggregate to saturation then finish with one coat of sealer.

There is no reason to re-apply the white primer coat or fabric layer as was already done. The applicator should be careful to make a smooth coating and not to clump the adhesive or aggregate in those spots. It is best to blend thin coats into the existing area just as one does when performing a spackle repair over a painted wall. At the floor drain locations, remove drain covers and install the full system. If there is not enough clearance for the aggregate layer, then the blended adhesive should be applied over the PerfectMembrane in those areas. This affords a protective layer at low clearance in those locations.

### **What do I do if the aggregate is uneven or too thin overall?**

Sprinkle new aggregate onto the deck when applying the TopSealer coat. Wait for it too dry, then apply TopSealer again.

**How do I apply SandRich to stairs?** SandRich is not intended for risers or vertical surfaces. To apply to stair treads: Place some duct tape onto the stair nose to create a clean line about ¼” back from the step face. Apply SandRich. Let cure for about 30 minutes and remove the tape. Apply multiple coats of TopSealer to Stairs and high traffic areas. On stair risers and vertical surfaces, apply the RubberDecky, (tinted if you prefer) and then seal with Top Sealer.



## Sand-Rich® FAQ'S

5 of 6

### **How do I terminate edges that don't have a natural stopping point?**

On tile jobs, terminate the job at a mortar joint if possible. Grind out the mortar and fill the joint with SandRich adhesive and sand. OR, simply apply clear silicone caulk to the perimeter of the termination edge.

To create a stopping point at any ledge, bullnose, or edge: Apply Duct tape horizontally or vertically to create a "Dam Wall". On vertical edges, apply the tape 2" inches higher than ledge with the sticky side facing toward the deck.

You may also use the tape edges to make "butt seams" that allow you to use different colored aggregates to create decorative shapes and/or borders

*\* Make certain the pull the tape as soon as the SandRich is firm enough to stand on its own without dripping.*

### **What can I do if part of the deck delaminates, cracks or "bubbles"?**

This typically occurs either when moisture getting under the Sand-Rich due to a poor edge termination, puncture, or wind-blown rain entering through façade walls. The water is entering the bottom of the membrane from the underside. This can also be caused by a site condition such as a strong negative vapor drive or high water table. This is akin to the same pressures and effect that occur when you inflate a balloon or fill it with water. The balloon expands, or "bubbles".

**To repair any lifted or problematic crack or edge that occurs:** Cut open the area in question then clean and dry the deck surface. You may then re-install the SandRich as per original specs. Optional: Apply polyurethane construction adhesive (available at any Home Depot) adhesive to the deck and press the Sand-Rich membrane back down into place. Make certain to cut back the Sand-Rich decking ¼" to allow the repaired area to lay flat.

Make sure to press the SandRich membrane down evenly and form a "butt" seam at the place where the two ends of the flab are pressed down. Hold in place for about 5 minutes. You can use a bit more of that adhesive to fill the gap that has formed where the membrane was cut, then sprinkle some sand onto the wet adhesive.

Apply the blended SandRich adhesive on top of the joint and repaired area, and then broadcast new aggregate to saturation. If you have our Polytex flashing fabric, you can first embed a piece of this into the wet SandRich adhesive, and then apply the aggregate on top. Once dry, apply TopSealer.



## **Sand-Rich® FAQ'S**

6 of 6

**\*NOTE:** If the PerfectPrimer® flashing fabric is bubbled, etc. then simply cut those areas out with a razor blade, repair the cause of the bubbling, and re-apply the fabric system as per original specs.

**Can I seal SandRich with a high gloss coating for interior uses?** Yes! This is a great idea where an easy to clean or aesthetically pleasing deck surface is needed. Simply, apply your clear Polyurea, UV rated Urethane or epoxy as a protective top coating to enhance the decks aesthetics, and durability.

**How can I “toughen up” my vertical flashings?**

To add a reinforced and abrasive / and puncture resistant layer to your PerfectPrimer flashings, use a paintbrush and coat them with the blended Part “A” and “B” adhesive. This material can also be pigmented as desired. Flashings can be painted to match existing walls as desired.