



HOW TO REFINISH CEMENT BASED TERRAZZO CHEMICAL FREE 13 STEP PROCESS

What You Will Need

Square Scrub EBG-20/C with seven full-size weights (requires long bolts)	<input type="checkbox"/>	10 White driver pads (pad is very dense, thin)	<input type="checkbox"/>
Solution Tank (if avail.)	<input type="checkbox"/>	High Speed Rotary Buffer**	<input type="checkbox"/>
Resin Diamonds (broken in)		Bucket on a Stick (BOS)(mop)	<input type="checkbox"/>
30 grit (x4)	<input type="checkbox"/>	Extra Microfiber Heads	<input type="checkbox"/>
50 grit (x4)	<input type="checkbox"/>	minimum of two for BOS	
100 grit (x4)	<input type="checkbox"/>	Clean towels	<input type="checkbox"/>
200 grit (x4)	<input type="checkbox"/>	Wet-vac in 100% operating condition	
400 grit (x4)	<input type="checkbox"/>	w/hose, power cord and working adjustable squeegee attachment	<input type="checkbox"/>
800 grit (x4)	<input type="checkbox"/>	OR	
1500 grit (x4)	<input type="checkbox"/>	auto scrubber (for larger areas)	<input type="checkbox"/>
3000 grit (x4)	<input type="checkbox"/>		
Diamond Pads (Blue - Rotary)			
3000 grit (one)	<input type="checkbox"/>		
6000 grit (one)	<input type="checkbox"/>		

***Warning:** If the floor to be polished has topical finish applied to the surface it must be stripped prior to polishing.

****Recommended:** While it is possible to use the Square Scrub for the final finish steps, a High Speed (1500-2500 rpm) Rotary Buffer is recommended for the fastest results.

Please refer to www.SquareScrub.com for up-to-date changes, information and tips

How long it will take

Many things can affect the time spent on your surface and square footage covered, but here are some approximate times to help manage your expectations. This is based on two people, one running the Square Scrub and the other rinsing and vacuuming/running autoscrubber.

RESIN ONLY : 30 - 100 grit — up to 500 sqft/hr, 100 grit — up to 500sqft/hr

RESIN ONLY : 200 through 3000 grit diamonds — from 600 to 1200 sqft/hr

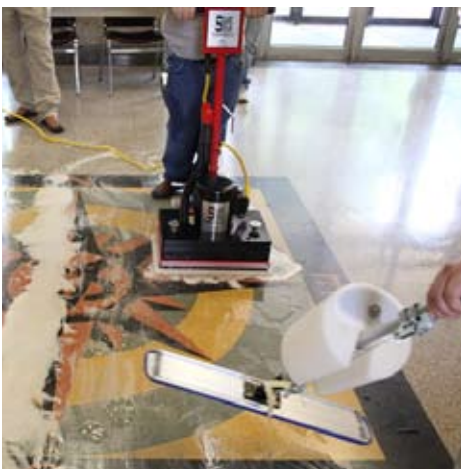
3000 and 6000 grit blue diamond pad - up to 1500 sqft/hr

Process

- Assemble all needed materials at work site.
- **IMPORTANT:** New resin diamonds must be “broken in” prior to using. Refer to our “How to Break in Diamonds” sheet on our website.
- Carefully protect any surrounding surfaces that may be harmed by this process.
- Attach four bars of each required grit to driver pad (one grit per pad) and place in order of process steps prior to completing this process. This will save a few extra steps in the workflow later on.
- **IMPORTANT :** If any type of topical mop-on finish is on the surface you **MUST** use vacuum brazed diamonds to strip the finish off or the resin diamonds will not work. Surface must be free of any topical coatings and should be dust mopped and wet cleaned as necessary.
- Place a total of 7 full weights (remove two small weights, if equipped) on the Square Scrub base. Fill solution tank or Bucket on a Stick with clean water.
- **SAFETY TIP :** Square Scrub suggests unplugging the motor prior to placing pads on the grip face. And as always, wear appropriate personal protection equipment.



Example of how to mount diamonds to driver pad



- If your surface is free of topical mop-onfinish, begin with step 7, but please read steps 2-4 and notes to better understand the process. Chemical removal of topical mop-on finish is also recommended. If the chemical method is used, proceed to step 7.

1. Place (4) 30 grit vacuum brazed diamonds on a white driver pad - two on each of the leading and trailing edges. It is best to place the “black velcro tab” side of the diamonds toward the inside, this will help the velcro maintain its ability to adhere to the pad.

- TIP : Keep a pace of approximately 1 ft/sec or slower for best results. Heavy cutting and low grits require a slow pace.
- 2. Dispense a liberal amount of water on the floor and operate Square Scrub — moving at a general pace of one foot per second or slower to ensure uniform surface scratching. Make minimum of four passes (two N-S, two E-W). Dispense additional water as needed to maintain a thin slurry consistency.

- 3. Wet vac slurry, rinse and wet vac again. Continue this until all topical finish is removed from the surface. It is important that the wet vac has a good working squeegee head. ALL liquid needs to be vacuumed and the surface clean of residue for the system to work properly. Continue making passes until the floor displays a dull consistency.



Scratches from 30 grit

- *Note : The scratches made from the 30 grit brazed metal diamonds are very noticeable. The photo at the right shows how aggressive these diamonds are. These scratches are normal and will be removed with your other grits.*



Note : Example of pass

- *Note : One pass is considered moving backward and forward in the same path, for example moving “north” and then “south”. When making two or more passes, alternate your directions from North-South to East-West. This will help ensure that all surface is evenly scratched.*

- *Always avoid contamination between grits by cleaning the surface thoroughly after using each grit.*

- 4. Move to the adjacent area, only overlapping the previous area to blend.

- 5. When the entire area is complete, rinse and vacuum to remove ALL residue.

- 6. After the completion of the fourth pass on the 30



Using an autoscrubber to clean slurry

grit diamonds and you've rinsed the surface, check to make certain all finish has been removed. **This is very important.** All finish must be removed prior to using the resin diamonds. If finish is still present, return to the 30 grit brazed diamonds to remove the remaining finish. Once all finish is removed repeat this process using the 50 and 100 grit metal brazed diamonds to remove scratches left behind by the 30 grit diamonds, then proceed to step 7.

- TIP : Keep a pace of approximately 1 ft/sec for best results

7. Place 4 orange Square Scrub 30-grit resin diamonds on the driver pad using the same method as with the vacuum brazed diamonds. Attach and center the pad on the grip face. Make three passes (two N-S, 1 E-W or vice versa) with the 30 grit resin diamonds. Follow the same process as found in steps 2-4, just varying the number of passes required making certain to clean **COMPLETELY** between EACH grit. Additional passes may be required for heavily damaged floors. While scrubbing, note the "orange peel" rough texture of the floor. Proceed with this step until you note a smooth feel.

8. After using the 30 grit diamonds, repeat steps 2-5 for each additional grit of diamond: 50 (green), 100 (dark blue), 200 (dark brown), 400 (burgundy), 800 (light yellow), 1500 (light blue) and 3000 grit (tan) diamonds. Make four passes (2 N-S, 2 E-W) with the 100 grit diamonds, then two passes in each direction (one N-S, one E-W) for the 200-3000 grit diamonds. After using the 3000 grit resin diamonds, proceed below.

9. When finished with the resin diamonds, move on to the blue Diamond Pads with the red wear dots. Begin with the 3000 grit Diamond Pad. This pad will polish the floor to a higher shine. Place the Blue Diamond Pad on a High Speed (1500 - 2500 rpm) Rotary Buffer- red dots should be placed on floor side down. **This process is used dry only.** Make a minimum of three passes (two N-S, one E-W or vice versa) with the 3000, then 6000 grit pads, keeping the same 1 ft/second pace.



30 grit



50 grit



100 grit



200 grit



400 grit



800 grit



1500 grit



3000 grit

10. Once you've made the passes with the 6000 grit pad, you should be able to see a brilliant shine on the terrazzo.

11. Thoroughly rinse all vacuum brazed and resin diamonds. You can use a nylon bristle brush to clean the vacuum brazed and resin diamonds. The white driver and diamond pads can be rinsed thoroughly, with water, hung to dry and reused. Clean debris off machine with a damp microfiber rag - making sure to clean underneath and on top of the machine.

Notes:

- *Maintain a consistent movement of 1 ft/sec for correct speed and maximum results.*
- *Always make certain to thoroughly rinse and clean the floor between each grit to avoid cross contamination of grits.*