



A STEP-BY-STEP GUIDE

CONCRETE FLOOR RESTORATION

A Dry Diamond Process To **Restore & Refinish** Concrete Floors



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PREPARATION

1. Obtain all necessary equipment, tools, and consumables, (refer to *Concrete Floor Restoration Brochure*).
 - a. Be sure to have 25% more consumables than estimated.
2. Remove anything covering the floor, (including coatings, paint, decals, gum, etc).

Note: For this process guide, the American Sanders Epoch rotary sander is recommended. For all grinding and polishing, it is recommended to operate the Epoch at high speed and with all the weights in place. The skirt should be attached **with the vacuum connected to it**. For burnishing, operate the Epoch at high speed while removing the weights, skirt and vacuum.

GRINDING & POLISHING



3. Grind the floor with 100 grit diamond disc, 4 passes.
 - a. On each pass overlap 1/2 head and change directions making a cross-hatch pattern.
4. Vacuum the floor.
5. Grind the floor with 200 grit diamond disc, 4 passes.
 - a. On each pass overlap 1/2 head and change directions making a cross-hatch pattern.
6. Vacuum the floor.

Note: If desired to grind / polish edges and corners, use the 200 grit diamond disc. This task can be completed by hand, with a drill, or right-angle grinder. No other grits are required for edges or corners. To make the 200 grit diamond disc more aggressive and to eliminate dusting, a small amount of water can be used for this step only. Do not use water with any other diamond disc!

7. Scrub, wet tack, or mop the floor. Floor does not have to be dry prior to the next step.



8. **Densify the concrete** by applying HardCore.
 - a. Spray entire floor with garden sprayer and work in with push broom.
 - b. Keep the floor wet for 20 minutes.
 - c. Coverage 200-500 sq.ft / gallon.
 - d. Allow floor to dry.

9. Polish the floor to desired appearance beginning with 400 grit diamond discs, increasing grit sequentially, 2-4 passes per grit.

- 400 grit = Matte



- 800 grit = Semi-gloss



- 1800 grit = High-gloss



- 3500 grit = Ultra High-gloss



- a. On each pass overlap 1/2 head and change directions making a cross-hatch pattern.
- b. Vacuum the floor after each grit.

10. Scrub, wet tack, or mop the floor. Floor must be dry prior to the next step

11. **Protect the concrete** by applying LockOut.

- a. Spray product in 3" wide straight lines and spread with a micro-fiber applicator.
(There may be times when only one line is needed such as when only a 5' wide area needs covered.)
- b. Coverage 2,000-3,500 sq.ft/gal
- c. Allow floor to dry 10-15 minutes.

12. **Burnish the floor** with a high-speed pad holder and PowerPolish HT pad.

13. Repeat steps 11 and 12 once.





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