



# APPLICATION INSTRUCTIONS

*Please Note: This information is provided as a reference and guide for applying RetroGrind™, specific to the use of the RetroPlate Concrete Polishing System. The information provided herein is furnished as a service only, and does not replace field training by experienced, competent and authorized instructors. It is the responsibility of the reader to seek qualified instruction prior to utilizing any information contained in this guide.*

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1. Perform a water test, scratch test (Mohs) and RA test (T meter). Floor should be at least 50% free of any topical bond breakers, curing compounds, glue, etc.
2. Choose appropriate starting diamonds for the desired appearance.
3. Super saturate the floor, applying water to refusal.
4. Diamond Examples:
  - To achieve medium to large aggregate exposure, suggested diamonds (but not limited to) 5 or 10 segmented 76 mm, Trapezoid, straight edge metal bond diamonds in grits ranging from 6 grit to 70 grit.
  - To achieve small aggregate or salt and pepper, suggested diamonds would include (but not limited to) radius edge or hybrid diamond in grits ranging from 30 to 220 grit.
5. Make sure there is no puddled water on floor before applying RetroGrind.
6. Apply RetroGrind at a rate of 400 sq. ft. per gallon. Agitate RetroGrind using a medium bristle broom or soft bristle brushes on auto-scrubber for 2-3 passes.
7. Let RetroGrind stand for 45 minutes.
8. Fill water tank on grinder with water and adjust water flow to down and out the back. Grinder must have a wet trail from behind machine.
9. Adjust grinder speed to 300 rpm, allowing water from grinder and RetroGrind to activate.
10. Move grinder **SLOWLY** (baby steps), approximately 6 to 10 feet per minute, creating thick slurry on both sides of grinder.
11. Initial step only must be ground in a cross-hatch pattern, north-south-east-west, overlapping grinder half of machine (dead center of motor), following previous wheel tracks on the return pass with grinder. This will ensure a consistent grind with total refinement of floor.
12. It is recommended to use a broom instead of a squeegee to move the slurry ahead and behind the grinder whenever the RetroGrind is present on the floor, whether one, two or three steps are used.
13. After initial grind is completed, squeegee several different areas of floor, making sure no random scratches or grind lines are present.

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14. Squeegee floor and collect slurry in storage containers.
15. Using clean water only, grind floor with a 400 grit resin diamond **WET**.
16. Prep floor for application of RetroPlate by thoroughly cleaning floor with water.
17. Apply a **FLOOD COAT** of RetroPlate at a rate of 200 sq. ft. per gallon, let dwell for one hour. Eco-friendly or waterless application is not recommended.
18. Remove RetroPlate with plenty of water.
19. After RetroPlated floor has dried (preferably overnight), finish polishing with either an 800 or 1500 grit resin diamond **DRY**.
20. The used RetroGrind can be turned into a solid and disposed of by adding Gelmaxx, portland cement or other similar products.

*For questions or concerns on these instructions, RetroGrind or the RetroPlate Concrete Polishing System, contact **Jim Walton, Technical Director for Advanced Floor Products**, at (865) 604-6800 or toll free at (888) 942-3144.*