

HiPER 3

DIY FLOOR POLISHING SYSTEM



Items needed that are not supplied:

- Dust collection vacuum - (min. 125 CFM)*
- Proper length of 10 gauge extension cord
- One gallon pump sprayer
- Two gallon pump sprayer
- Mop with two micor-fiber heads

*Recommend Husqvarna S 26 Dust Extractor

Preparation:

- For the 110V PG450 make sure to use 110v 20 amp circuit (Using 15 amp circuit breaker will result in breaker tripping off) with power supply close enough to the grinder.
- Use a maximum of 50 ft., 10 gauge extension cord.
- If using house power, the vacuum must be plugged into a separate circuit breaker line from the grinder.

Note: Concrete powder must be vacuumed during grinding

DIRECTIONS:

1 Sweep floor to remove all loose debris from surface.

2 With grinder unplugged, mount Step 1 pads by raising handle up and tilting the machine back (Fig 1 and 2). Mount all three Step 1 pads onto Velcro (Fig 3).



FIG 1

FIG 2

FIG 3

3 Lower grinder to starting location. Plug in grinder and vacuum, attach vacuum hose to the back port on the grinder.

4 You will want to start the machine at one end of the space. When starting the grinder you will need to apply downward pressure on the handle (Fig 4) then turning the grinder switch to "ON" position. This will prevent circuit from tripping off. **DO NOT LIFT GRINDING HEAD OFF THE FLOOR** as the grinding plates can disengage and eject from grinder.



FIG 4

5 Walking slowly (approx. 1-2 ft/min) move the grinder forward, slightly oscillating, along one wall toward the other side of the space. Make two passes at the other end of the space to enable easy turn around (Fig. 5). Now, overlapping the first pass by 4" make the second pass along the first pass. Continue to make overlapping passes across the entire area (Fig. 6).



FIG 5



FIG 6

(Note: The entire first step is the most critical, do your best to make sure all areas of the floor are ground equally. This step usually requires at least two passes over the entire area. There are many variables in concrete that can affect how fast or how slow the first step can take such as surface hardness, surface finish (smooth-rough), floor flatness, coating, seal, etc.)

6 Once you have ground down the floor to the desired level with Step 1 pads and removed any concrete powder from the surface, apply the liquid Chemical A (concrete densifier). Pour the one-gallon of Chemical A into a clean, two-gallon pump sprayer and then add water up to the two-gallon line on the sprayer.

7 Using the pump sprayer, apply an even, thin layer of Chemical A and mop sprayed area using a clean micro-fiber mop (Fig 7). After Chemical A has been mopped over the entire polished area, let it dry for 2 hours.



FIG 7

Note: Your finished results may vary depending on the age, quality, and previous contaminants in your concrete. Remove grease, oil, paint, epoxies, or other coatings prior to beginning the polishing process.

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Directions continued:

- 8** Remove Step 1 pads and mount Step 2 pads. Follow above directions 1-5. A slightly faster walking pace can be used (approx. 3-4 ft/min).



(Note: This step only requires one pass of the polishing area.)

- 9** Remove Step 2 pads and mount Step 3 pads. Remove any concrete powder from the surface. Follow above directions 1-5. A slightly faster walking pace can be used (approx. 6-7 ft/min).



(Note: This step only requires one pass of the polishing area.)

- 10** Once you have polished the floor with Step 3 pads, remove any concrete powder from the surface and apply the liquid Chemical B (top sealer). Pour a ½ gallon of Chemical B in a clean, one-gallon pump sprayer and then add water up to the one-gallon line on sprayer.

- 11** Using the pump sprayer, apply an even, thin layer of Chemical B and mop sprayed area using clean micro-fiber mop (Fig 7). After Chemical B has been mopped over the entire polished area, let dry for 1 hour or until the floor does not feel tacky to the touch.



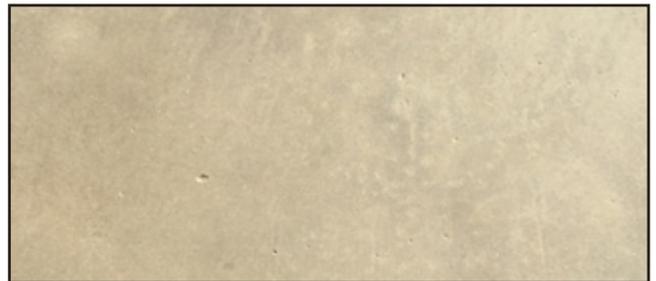
- 12** Run the Step 3 Pads over the polished area one more time to increase the shine.

Note: Your finished results may vary depending on the age, quality, and previous contaminants in your concrete. Remove grease, oil, paint, epoxies, or other coatings prior to beginning the polishing process.

Appendix 1: What to expect



Start



After Step 1



After Step 2



After Step 3 (and sealer)

Maintenance/Cleaning

Floor can be mopped with soap and water. Although the final sealing step protects from stains any oil, paint, gas or chemical spills should be cleaned as soon after the spill as possible.