**Concrete Polishing Overview**

The Surtec System for polishing concrete is a simple, but effective process utilizing the latest in easy to use equipment, Surtec Diamond Pucks and Extra Heavy Duty Diamond Impregnated Floor Pads.

**The Process**

Many concrete floors can be polished to acceptable results with as few as two grits of diamond pucks and high speed burnishing with diamond impregnated floor pads. The final step will be the application of Surtec Insta Guard, a stain protector that gives the surface of the concrete protection against many common stains and provides an easy to maintain, high gloss appearance.

**Maintenance**

To maintain your beautifully polished floor, dust mop often and clean the floor daily with an automatic floor scrubber or mop and Surtec Guard Maintainer. Depending on traffic burnish the floor with a High Speed Burnisher as needed to maintain the high level of shine.

*Surtec Has the ‘Solutions’ for Your Maintenance Problems!*
Depending on the condition of the floor and the level of polish desired, you may use Surtec Diamond Pucks from #50 grit up to #3000 grit. The explanation below starts at #50.

1. **FIRST**, clean the floor thoroughly with an automatic scrubber and a solution of Surtec LF-150 HD Cleaner.

2. Before you begin the polishing process, apply water to the floor to help lubricate the diamonds and do not allow the floor to dry. Place #50 Grit 4” Diamond Pucks under red pads on the auto scrubber.

3. Begin scrubbing/polishing the floor leaving the squeegee in the UP position and the vacuum motor OFF. Apply water to the floor to help lubricate the diamonds. Do not allow the floor to dry.

4. Working a manageable area of the floor continue to polish the floor until you have made six to eight overlapping passes over the entire area. Lower the squeegee, vacuum up all of the slurry and rinse the floor.

5. Replace the #50 Grit Diamond Pucks with #100 Grit 4” Diamond Pucks and repeat the scrub/polish/vacuum process.

6. Replace the #100 Grit Diamond Pucks with #200 Grit 4” Diamond Pucks and repeat the scrub/polish/vacuum process. Thoroughly rinse the floor.

**NOTE:** After polishing to #200 or #400, apply Surtec “Con-Dense LS” Concrete Densifier. Apply liberally, allow to dwell 10-15 minutes and keep moving it around with a mop or brush. DO NOT let the densifier dry on the surface. Squeegee excess densifier to the next section and repeat the above process for each section of the floor. **IMMEDIATELY** after squeegee removal, remove any excess densifier on the surface with a clean water wet mop. Allow the surface to dry before continuing to the next polishing step. Do not use a wet vacuum or auto-scrubber to remove excess densifier.

7. Replace the #200 Grit Diamond Pucks with #400 Grit 4” Diamond Pucks and repeat the scrub/polish/vacuum process.

8. Continue to repeat step 7 with the next grit of Diamond Pucks until the desired appearance is achieved (#800, #1500 and #3000)

9. Place a #3000Grit HD Diamond Floor Pad on a propane or battery powered high speed buffer.

10. Apply a small amount of water to the floor and begin buffing at ¾ throttle. After two passes with the buffer and as the water begins to dry increase to full throttle and continue to buff until the desired results are achieved. Repeat this process until the entire floor is polished.

11. Dust mop the floor. Apply two thin coats of Surtec Guard 598 Stain Protector with a large Finish Mop or Micro Fiber Applicator.

12. After the second coat of Guard 598 is dry, buff the floor with a high speed buffer equipped with a Thermal Gloss Buffing Pad.
Depending on the condition of the floor and the level of polish desired, you may use Surtec 4” Diamond Pucks or 10” Diamond Dot Discs from #50 grit up to #3000 grit. The explanation below starts at #50.

1. FIRST clean the floor thoroughly with an automatic scrubber and a solution of Surtec LF-150 Heavy Duty Cleaner.

2. Before you begin the polishing process, apply water to the floor to help lubricate the diamonds and do not allow the floor to dry.

3. Install #50 Grit 4” Diamond Pucks or 10” Diamond Dot Discs on the Hydra ReJuve Concrete Polisher.

4. Working a manageable area of the floor, polish the floor, in a north-south, then east-west pattern (if possible) until you have made six to eight overlapping passes over the entire area. Vacuum up the slurry with a wet/dry vacuum or automatic scrubber. Rinse the floor.

5. Replace the #50 Grit Diamond Pucks or Diamond Dot Discs with #100 Grit Diamond Pucks or Diamond Dot Discs and repeat the scrub/polish/vacuum process.

6. Replace the #100 Grit Diamond Pucks or Diamond Dot Discs with #200 Grit Diamond Pucks or Diamond Dot Discs and repeat the scrub/polish/vacuum process.

NOTE: After polishing to #200 or #400, apply Surtec “Con-Dense LS” Concrete Densifier. Apply liberally, allow to dwell 10-15 minutes and keep moving it around with a mop or brush. DO NOT let the densifier dry on the surface. Squeegee excess densifier to the next section and repeat the above process for each section of the floor. IMMEDIATELY after squeegee removal, remove any excess densifier on the surface with a clean water wet mop. Allow the surface to dry before continuing to the next polishing step. Do not use a wet vacuum or auto-scrubber to remove excess densifier.

7. Replace the #200 Grit Diamond Pucks or Diamond Dot Discs with #400 Grit Diamond Pucks or Diamond Dot Discs and repeat the scrub/polish/vacuum process.

8. Continue to repeat step 7 with the next grit of Diamond Pucks Diamond Dot Discs until the desired appearance is achieved (#800, #1500 and #3000)

9. Place a #3000Grit HD Diamond Floor Pad on a propane or battery powered high speed buffer.

10. Apply a small amount of water to the floor and begin buffing at ¾ throttle. After two passes with the buffer and as the water begins to dry increase to full throttle and continue to buff until the desired results are achieved. Repeat this process until the entire floor is polished.

11. Dust mop the floor. Apply two thin coats of Surtec Guard 598 Stain Protector with a large Finish Mop or Micro Fiber Applicator.

12. After the second coat of Guard 598 is dry, buff the floor with a high speed buffer equipped with a Thermal Gloss Buffing Pad.
The Surtec 32” Autoscrubber ~ Battery Powered Traction Drive Self Propelled Variable Forward and Reverse Automatic Scrubber lays down cleaning solution, scrubs, then vacuums away dirty solution, leaving floors clean and dry in one pass. With Up To 200 lbs. of pad pressure and 4.5 to 5 hours of run time, this Heavy Duty 32” Auto Scrubber can scrub, strip or practically anything else you want your auto scrubber to do!

The Rejuve ~ Powerful propane powered Kawasaki 18HP 603cc engine is built to run clean and efficient, extending engine life to twice that of other types of engines. A three-way catalytic muffler lowers CO, HC, and NOx emissions. The EnviroGard emissions monitoring system protects the operator by shutting down the engine if CO levels rise. CE, CARB, and EPA certified.

Surtec’s 27” Propane Buffer ~ with Patented Vacuum System Surtec Acti-Vac Vacuuming System captures and contains up to 90% of dust particles created by ultra high speed buffing. Less dust in the air provides cleaner indoor quality. Typical non-vacuuming Ultra High Speed Propane Buffer can generate more than 1,000,000 particles (larger than 1 micron) per cubic foot, per minute.

Surtec Guard 598 ~ Develops rapid hardness, scratch, scuff and water resistance. Excellent flow & leveling properties, and requires no special burnishing technique for curing or gloss development. INSTA GUARD provides outstanding floor protection and appearance over extended periods of time, providing a savings in labor and materials.

Surtec Guard Maintainer ~ A concentrated product utilizing GUARD 598 micro polymer technology in a detergent system formulated to clean and rejuvenate INSTA GUARD protected polished concrete surfaces. Cleans the floor, hardens the finish, and brightens the gloss.

Slip resistance and safety are also improved with routine use of GUARD MAINTAINER.