

## SECTION 1



## MG2 Diamond Pad System

The MG2 Diamond Pad System is a coordinated resin-bond diamond system to perform marble and terrazzo polishing using any low-speed, mono-rotational machine. The system is only to be used wet and in sequence as numbered by tools #1 through #8. All tools are numbered and carry the same purple "MG2" to indicate a matched system.

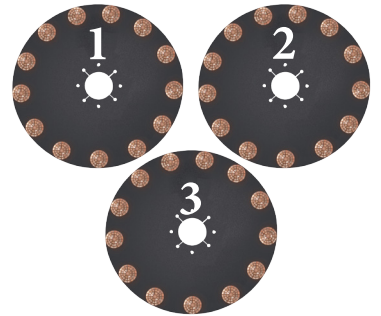
*See Section 3 for floor qualifications to be sure the MG2 can be used to polish and restore the intended marble and terrazzo floor.*

***IMPORTANT! The MG2 System is never to be used on terrazzo or marble floors that have elevation changes, divider strips, or lippage.***

### MG2 Steps #1, #2, #3

#1, #2 & #3 is a tool with resin dots fixed to a rubber backer that has a pictured face design and can be clearly identified by the number on back as "#1," "#2," & "#3." All tools feature a velcro backer for attachment to machine driver.

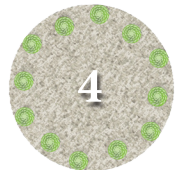
- Approximate life of #1 is 8,000 SF / 743 M<sup>2</sup>
- Approximate life of #2 is 8,000 SF / 743 M<sup>2</sup>
- Approximate life of #3 is 10,000 SF / 929 M<sup>2</sup>.



### MG2 Step #4

#4 is a tool with resin dots fixed to a fiber pad that has a pictured face design and can be clearly identified by the number on back as "#4." This tool features a gripping backer for use with hook Velcro machine driver.

- Approximate life of #4 is 10,000 SF / 929 M<sup>2</sup>.



### MG2 Step #5

#5 is a tool with resin dots fixed to a fiber pad that has a pictured face design and can be clearly identified by the number on back as "#5." This tool features a gripping backer for use with hook Velcro machine driver.

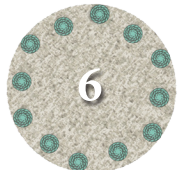
- Approximate life of #5 is 10,000 SF / 929 M<sup>2</sup>.



### MG2 Step #6

#6 is a tool with resin dots fixed to a fiber pad that has a pictured face design and can be clearly identified by the number on back as "#6." This tool features a gripping backer for use with hook Velcro machine driver.

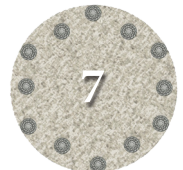
- Approximate life of #6 is 10,000 SF / 929 M<sup>2</sup>.



### MG2 Step #7

#7 is a tool with resin dots fixed to a fiber pad that has a pictured face design and can be clearly identified by the number on back as "#7." This tool features a gripping backer for use with hook Velcro machine driver.

- Approximate life of #7 is 10,000 SF / 929 M<sup>2</sup>.



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## MG2 Step #8A

#8A is a tool that is a fiber pad covered with abrasive materials that has a pictured face design and is clearly identified by the number on back as "#8." This tool features a gripping backer for use with hook Velcro machine driver.

- Approximate life of #8A is 10,000 SF / 929 M<sup>2</sup>.



## MG2 Step #8B

#8B is a chemical that is used with the Step #8A. The chemical is a concentrated hardening agent that increases slip resistance and surface abrasion resistance. Dilution of 8B is 4 oz. per gallon of clean tap water (or 30ml/liter).



## How to Use the MG2 Diamond System

See Section 3 for general guidelines for safe and productive use of the machines.

It is important to ensure that the MG2 Pad is properly centered on the driver. Visual inspection of the assembly perimeter should verify pad and driver are aligned equally.

### For Pads #1, #2 & #3 —

- Place MG2 Pad, #1, #2 or #3 onto synthetic pad and then on to driver of burnisher, auto-scrubber, or swing machine.

### For Pads #4, #5, #6, #7 & #8A —

- Place MG2 pad directly onto velcro or spike driver.

For every step of the MG2 Pad System, always overlap passes by 50% and move at a speed that is adequate for the pads to process the surface. After every step is complete, wash the floor with clean water.

### Specifically for Step #8A & #8B —

- The final step of the MG2 System requires the use of the #8A MG2 pad plus the #8B chemical hardener. #8B is to be added to the water which will be used during this process at a ratio of 1:32, #8B to clean, tap water.

## Burnishing Machines

1. Adequately wet\* the work area with water or in cases of burnishers that have an on-board water tank, turn the water flow to on.
2. Upon starting burnishing machine, adjust head speed to +/-25Hz and continuously move machine in a side-to-side pattern ensuring the machine is continuously moved while running. If for any reason the machine cannot be continuously moved, i.e. cord management, adjacent work, obstacles, etc., stop the machine until it can be operated as specified above.
3. After every step is complete, wash the floor with clean water.
4. Upon satisfactory removal of contamination\*\*, wet vacuum or auto scrub surface and allow to dry.

## SECTION 2

### EXECUTION

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## Auto-scrubbers

1. Adjust water flow to keep surface adequately wet\* while using the MG2 Pad.
2. Begin moving forward with machine before engaging the heads. Any time the heads are rotating the MG2 Pads will be working. Stopping the machine while heads are rotating will leave unsightly circles in the floor.
3. For most conservative use of water, it is advised to leave vacuum and squeegee in off position. This way the water will be reused during the working process.
4. After every step is complete, wash the floor with clean water.
5. Upon satisfactory removal of contamination\*\*, wet vacuum or auto scrub surface and allow to dry.

## Swing Machines

1. Adequately wet\* the work area with water or in cases of swing machines that have an on-board water tank, turn the water flow to on.
2. Upon starting the machine, continuously move machine in a side-to-side pattern ensuring the machine is continuously moved while running. If for any reason the machine cannot be continuously moved, i.e. cord management, adjacent work, obstacles, etc., stop the machine until it can be operated as specified above.
3. After every step is complete, wash the floor with clean water.
4. Upon satisfactory removal of contamination\*\*, wet vacuum or auto scrub surface and allow to dry.

\* Adequately wet means that the surface of the concrete is covered by a thin film of water. As the work is performed, a continuous supply of water is required as the marble dust will absorb the water. It is imperative, in wet operation, that water is always between the MG2 pad and the floor surface. Inadequate supply of water will produce harmful and damaging dust and the tool will not perform.

\* \* Disposal of the contaminants / marble dust (commonly referred to as "slurry") must be done in accordance with Federal/Local regulations and should never be poured down any sanitary or storm drain.

## QUALIFICATIONS

### Flooring Condition Qualifications

Use of the MG2 System requires that marble or terrazzo has a clean, smooth profile with no elevation changes or divider strips or lippage on new marble installations. The floor surface needs to be flat and smooth or the MG2 pads will become damaged very quickly. Any roughness or surface inequalities will reduce pad life and alter consistency of final polish.

For marble and terrazzo floors, surface degradation must not exist to the point of holes or inequalities. In cases where the tile is moderately inconsistent, consult your sales rep for alternatives to remedy these problems.

The best way to verify the suitability of the MG2 System for a given marble or terrazzo floor is to perform a mock-up. Past experience can be a good guide to verify a floor can be properly restored and polished but a mockup is the ONLY way to know.

## SECTION 3



### QUALIFICATIONS

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# TECH DATA SHEET

# MG2

## *Machinery Qualifications*

The MG2 System requires the use of one of the following machinery:

- Mono-rotational burnishing machine with operable speeds of 25Hz to 30Hz on STI PMB machine or 350RPM on all other burnishers. The MG2 System should NEVER be used at speeds higher than 350RPM. Some models of burnishing machines have an on-board water tank that has a continuous feed system or on-demand feed by a lever action. The on-board water tank does make it convenient to provide water to MG2 pads as needed instead of using a bucket as water source.
- Auto-Scrubbers of any size, head pressure is not to exceed 300 pounds/136Kg and 350RPM.
- Swing Machines of any size that has head pressure is not to exceed 150 pounds/68Kg and 350RPM.

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