

SECTION 1

TOOLS

EGT Polishing System

The EGT Diamond System is a coordinated metal and resin bonded diamond system to produce a polished concrete floor using any of the eight models of Prep/Master® machines. The system is only to be used dry and in sequence as numbered by tools #1 through #8. All tools are painted green or use green velcro backings to indicate a matched system. (See Section 3 for concrete slab qualifications to verify if the EGT system is appropriate to the concrete that is to be polished.)

EGT #1 & #2

These are metal bond tools that have the same face design and can be clearly identified by the number on back as "#1" and "#2." Both tools feature the patented EG attachment system.

- Approximate life of #1 is 30,000 SF / 2,787 M² for all P/M Machines except 4430 (P/M Machine 4430 life expectancy is 40,000 SF / 3,716 M²)
- Approximate life of #2 is 35,000 SF / 3,251 M² for all P/M Machines except 4430 (P/M Machine 4430 life expectancy is 47,000 SF / 4,366 M²)



#1 - 540574001



#2 - 540578002

EGT #3

This is a metal bond tool that has the pictured face design and can be clearly identified by the number on back as "#3." This tool features the patented EG attachment system.

- Approximate life of #3 is 35,000 SF / 3,251 M² for all P/M Machines except 4430 (P/M Machine 4430 life expectancy is 47,000 SF / 4,366 M²)



#3 - 540591503

EGT #4

This is a 3" resin bonded tool that has the pictured face design and can be clearly identified by the number on back as "#4." This tool features green Velcro backing.

- Approximate life of #4 is 20,000 SF / 1,858 M² for all P/M Machines except 4430 (P/M Machine 4430 life expectancy is 26,500 SF / 2,650 M²)



#4 - 540760004

EGT #5, #6, #7, & #8

#5, #6, #7 & #8 are 3" resin bonded tools that have the pictured face design and can be clearly identified by the number on back as "#5," "#6," "#7," "#8." These tools feature green Velcro backing.

- Approximate life of #5, #6, and #8 is 12,000 SF / 1,115 M² for all P/M Machines except 4430 (P/M Machine 4430 life expectancy is 16,000 SF / 1,486 M²)
- Approximate life of #7 is 10,000 SF / 930 M² for all P/M Machines except 4430 (P/M Machine 4430 life expectancy is 13,300 SF / 1,235 M²)



#5 - 540800005



#6 - 540800006



#7 - 540800007



#8 - 540800008

It's a System



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SECTION 2



EXECUTION

How to Use the EGT Diamond System

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

1. Attach the EGT #1 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 50% of weights on head of machine and 50% in basket over wheels, set speed to 35Hz on VSD and start machine (for propane, run at 2200 RPM). Upon satisfactory completion of step #1, remove machine from area and vacuum the surface.
2. Attach the EGT #2 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 35Hz on VSD and start machine (for propane, run at 2200 RPM). Upon satisfactory completion of step #2, remove machine from area and vacuum the surface.
3. Attach the EGT #3 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 35Hz on VSD and start machine (for propane, run at 2200 RPM). Upon satisfactory completion of step #3, remove machine from area and vacuum the surface.
4. Attach the EGT #4 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 35Hz on VSD and start machine (for propane, run at 2200 RPM). Upon satisfactory completion of step #4, remove machine from area and vacuum the surface.
5. Attach the EGT #5 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 45Hz on VSD and start machine (for propane, run at 2500 RPM). Upon satisfactory completion of step #5, remove machine from area and vacuum the surface.
6. Apply densifier per manufacturer's recommendations and allow surface to dry completely after densifier process has been completed. See Section 3 for further information about densifiers.
7. Attach the EGT #6 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 50Hz on VSD and start machine (for propane, run at 2700 RPM). Upon satisfactory completion of step #6, remove machine from area and vacuum the surface.
8. Attach the EGT #7 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 50Hz on VSD and start machine (for propane, run at 2700 RPM) Upon satisfactory completion of step #7, remove machine from area and vacuum the surface.
9. Attach the EGT #8 tools to the P/M Machine and place it in operating position. Attach appropriate power* and vacuum dust collection hose to the P/M machine. With 100% of weights on head of machine, set speed to 50Hz on VSD and start machine (for propane, run at 2700 RPM). Upon satisfactory completion of step #8, remove machine from area and vacuum the surface.

* See Section 3 for qualifications.

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SECTION 3

QUALIFICATIONS

Qualifications

As a general rule for all operations using the Prep/Master® machines:

- * The machine manual **MUST** be read and understood by any operator for the safe and productive use of the machine.
- * Upon starting the machine, continuously move the machine in a side-to-side pattern ensuring that the machine will grind the floor evenly. 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.
- * A thorough processing of the concrete can only be achieved by one pass forward and then a second pass backward over same path. It is compulsory to overlap paths by at least 25%. The machine must always be swung side-to-side approximately 30 degrees. The machine should never be quickly pushed across floor to move to areas outside the area that is to be polished.
- * The work area must be closed to all non-associated workers and equipment. The likelihood of contamination by unassociated traffic is increased and rogue scratches will be possible as well as overall reduced polish.

Flooring Condition Qualifications

- Use of the EGT Tool System requires that the surface to be treated is completely dry. For floors that have adhesives, built-up contaminants or other coatings, the surface must be first prepared using the #0 Prep Tool.
- Use of the EGT Tools System can only be used, as specified above, for floors that are at least 4,250Psi/29Mpa and are over 28 days old.
- As a general rule, it is best to inspect floor **BEFORE** beginning to note or mark obstacles such as floor drains, protrusions from floor and elevation changes in excess of 2mm.
- Any polishing project that is undertaken should **ALWAYS** be preceded by a mock-up of at least 100 SF / 9 M². This mock-up will serve two purposes: to provide a finished sample that owner can approve and to verify the suitability of the EGT Tool System for the given slab.

Machinery Qualifications

The EGT Tool System is designed to attach to and work perfectly with any Substrate Technology Prep/Master® machine. Quantity of EGT Tools will vary by model:

- Prep/Master® Jr. & 2807/2818LP: 6 pieces
- Prep/Master® 2420/2418LP: 12 pieces
- Prep/Master® 3030/3038LP: 12 pieces
- Prep/Master® 4430/4438LP: 24 pieces

Attachment of EGT Tools #4 through #8 require Velcro pad adapters #570000031 & #570000026.

Densifier Qualifications

Manufacturer's instructions for use must be followed exactly for best results and to avoid any costly mistakes. Densifier must be the type that after its application, the floor is specified to be finished with a dry system and no water whatsoever.

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