

SECTION 1

TOOLS

CLC Polishing System

The CLC Diamond System is a coordinated metal and resin bonded diamond system to perform polished concrete using any of the eight models of Prep/Master® machines. The CLC Diamond System is only to be used dry for step #1, wet for steps #2, #3 & #4 and dry for steps #5, #6 & #7 and in sequence as numbered by tools #1 through #7. All tools are painted red or use red Velcro to indicate a matched system. (See Section 3 for concrete slab qualifications to verify if the CLC system is appropriate to the concrete that is to be polished.)

CLC #1

This is a metal bond tool painted red that has pictured face design and can be clearly identified by the number on back as "#1." This tool features the patented EG attachment system. The tool is run dry.

- Approximate life of #1 is 30,000 SF / 2,787 M².



#1 - 530400001

CLC #2

This is a metal bond tool painted red that has pictured face design and can be clearly identified by the number on back as "#2." This tool features the patented EG attachment system. The tool is run wet.

- Approximate life of #2 is 30,000 SF / 2,787 M².



#2 - 530700002

CLC #3

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

- Approximate life of #3 is 15,000 SF / 1,394 M².



#3 - 530746003

CLC #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 red Velcro backing. The tool is run wet.

- Approximate life of #4 is 15,000 SF / 1,394 M².



#4 - 530752004

CLC #5, #6, & #7

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

- Approximate life of #5 & #7 is 12,000 SF / 1,115 M² each.
- Approximate life of #6 is 10,000 SF / 930 M² each.



#5 - 530860005



#6 - 530870006



#7 - 530880007

It's a System



Not a Machine

SECTION 2



EXECUTION

Execution

See Section 3 for general guidelines for safe and productive use of the Prep/Master® machines. Since a portion of the CLC System is performed wet, its use should only be by those familiar with all safety and productive work practices while using water.

1. Attach the CLC #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 CLC #2 tools to the P/M machine and place it in operating position. Attach appropriate power* to the P/M machine. With 50% of weights on head of machine and 50% in basket over wheels, set speed to 45Hz on VSD and start machine (for propane, run at 2500 RPM), add water and start the machine. Upon satisfactory completion of step #2, remove machine from area and wet vacuum or auto-scrub the concrete clean.
3. 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.
4. Attach the CLC #3 tools to the P/M machine and place it in operating position. Attach appropriate power* to the P/M machine. With 50% of weights on head of machine and 50% in basket over wheels, set speed to 45Hz on VSD, add water, and start machine (for propane, run at 2500 RPM). Upon satisfactory completion of step #3, remove machine from area and wet vacuum or auto-scrub the concrete clean.
5. Attach the CLC #4 tools to the P/M machine and place it in operating position. Attach appropriate power* to the P/M machine. With 50% of weights on head of machine and 50% in basket over wheels, set speed to 45Hz on VSD and start machine (for propane, run at 2500 RPM), add water and start the machine. Upon satisfactory completion of step #4, remove machine from area and wet vacuum or auto-scrub the concrete clean.
6. Attach the CLC #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 50Hz on VSD and start machine (for propane, run at 2700 RPM). Upon satisfactory completion of step #5, remove machine from area and vacuum the surface.
7. 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.
8. Attach the CLC #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.
9. Attach the CLC #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.

* See Section 3 for qualifications.

It's a System



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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.
- * The use of the machine and water must only be done by skilled workers that have been trained and understand the safety precautions that need to be undertaken. The danger of electric shock is present anytime water is used with electrical machinery. Water also presents the possibility that any floor openings or drains can serve as a conduit for water to damage unintended areas. The disposal of wet waste or slurry must be done in accordance with all local laws and regulations.
- * Upon starting the machine, continuously move machine in side-to-side pattern ensuring that 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.
- * A thorough processing of the concrete can only be achieved by one pass forward and then 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 CLC Tool System requires that the surface to be treated is clean of coatings or adhesives. 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 CLC Tool 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 CLC Tool System for the given slab.

Machinery Qualifications

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

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

Attachment of CLC Tools #3 through #7 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 type, that after its application, the floor is specified to be finished with a dry system and no water whatsoever.

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