

**THIS IS A WARRANTY AND NOT INSURANCE. THIS WARRANTY DOES NOT TAKE THE PLACE OF YOUR INSURANCE OR YOUR HOMEOWNERS INSURANCE.**

This warranty is on the task. If the Home is sold, each successor in title to the Home, including a mortgagee in possession, is no entitled to coverage under the warranty for its unexpired Warranty Period.

## **CONCRETE & STAINING TECHS SIMPLY WARRANTY**

### **PART 1 GENERAL**

#### **1.1 SUMMARY**

- A. Work in this section applies to the mechanical polishing of interior concrete floor surfaces.
- B. Furnish polished concrete floor finish complete as indicated on drawings and as specified herein.

#### **1.2 SUBMITTALS**

- A. Submittal Package: Prior to commencement of work submit all product data sheets for concrete densifiers/hardeners, grinding equipment, vacuum systems, joint fillers and diamond tooling to be used.
- B. Installation contractor's qualification history/data.
- C. Manufacturer's Certification – Provide a letter of certification from product manufacturer(s) stating that the installer is a certified applicator and is familiar with the proper procedures, surface preparations and installation requirements recommended by the manufacturer(s).
- D. Samples: Prior to commencement of work provide finish samples for the Owner's review. See 1.06 Mock-Up.
- E. Contract Closeout Submittals: Provide 2 copies of the recommended cleaning and maintenance instructions for the installed floor system to the Owner's Representative.

#### **1.3 QUALITY ASSURANCE**

- A. Installer Qualifications: Installer shall be an established company regularly engaged in the installation of polished concrete floor system with a minimum of five (5) years experience. Contractor shall furnish documentation regarding the successful completion of projects of similar magnitude and complexity.
- B. Single Source Responsibility: All required materials and installation personnel to be provided by the installing contractor.
- C. Pre-pour Meeting: The contractor shall conduct an on site meeting before the pour/placement of the concrete slab related to this section with the Owners Representative, concrete finishing contractor and concrete polishing contractor to review requirements necessary for a successful polished floor surface.
- D. Pre-installation Meeting: The Contractor shall conduct an on site pre-installation meeting with the Owner in which the written floor finishing plan is reviewed. Pre-installation meeting shall include a walk down of the floor to review the condition of the floor and to determine surface preparation requirements. Additional topics of discussion shall include:
  - 1. Floor surface preparation, cleaning, and protection.
  - 2. Previous products applied to concrete floors, including curing compounds.
  - 3. Application means and methods, including equipment to be used.
  - 4. Sequence of installation
  - 5. Location of sample finished area
  - 6. Desired sheen and appearance of the finished floor

7. Acceptability of finished slab and/or deficiencies of finished slab and associated remedies

#### **1.4 DELIVERY, STORAGE AND HANDLING OF PRODUCT**

- A. Delivered materials to the site shall be in factory sealed containers, clearly labeled and marked with manufacturer's name, address, batch number, and date of manufacture. Material Safety Data Sheets must accompany materials upon arrival.
- B. Store materials in accordance with manufacturer's printed instructions. Furthermore, materials to be used in conjunction with the application of this system shall be stored indoors, protected from damage and maintained at a temperature no lower than 40 degrees.

#### **1.5 PROJECT/SITE CONDITIONS**

- A. Floor areas to be polished are to be free and clear of all obstacles including racking, fixtures and temporary equipment and materials in order to provide an open and uninhibited concrete slab.
- B. Any anchoring bolts, cut off conduit and other associated items removed in a demolition process need to be removed or recessed a minimum of ¼" below lowest surrounding point of the concrete floor surface.
- C. All previous flooring materials such as tile, carpet and wood flooring and associated adhesives are to be removed prior to the installation of the polished concrete flooring. Caution needs to be taken to ensure that no damage to the concrete floor takes place since the slab will be the finish product.
- D. A minimum of 28 days of cure on new concrete should be provided before system installation is initiated.
- E. Protection: General Contractor shall protect areas to receive polished concrete finish at all times during construction to prevent oils, dirt, metal, excessive water and other potentially damaging materials from affecting the finished concrete surface. Protection measures listed below shall begin immediately after the concrete slab is poured:
  1. All hydraulic powered equipment shall be diapered for staining of the concrete.
  2. All vehicle parking shall be prohibited on the finished area. If necessary to complete their scope of work, drop cloths shall be placed under vehicles at all times.
  3. No skids are to remain in contact with floor surface for an extended period of time.
  4. All trades need to be informed that the slab must be protected at all times.
- F. Ensure that adequate lighting has been installed to support surface preparation and polishing application. A minimum of half the illumination of an open facility is required.

#### **1.6 MOCK-UP**

- A. Install a completed sample of the proposed system at location determined by the Owner's Representative. If approved by owner or owner's representative, the mock-up may be incorporated into the work. It must meet the same specification as the project's flatwork requirements for the polished concrete floor areas.
- B. Equipment, tooling and products used are to be the same specified in Section 2.02 and the same that will be used for the entire project.

#### **1.7 WARRANTY**

5 year installation warranty & 3 year warranty on manufactures products.

## **1.8 ENVIRONMENTAL REQUIREMENTS**

- A. Contain and minimize dust produced by polishing.
- B. Wet grinding is not permitted as standard procedure.

## **PART 2 PRODUCTS / SYSTEM**

### **2.1 SYSTEM MANUFACTURER / PROVIDER**

- A. Concrete & Staining Techs  
1259 Spring Creek Ct, Jacksonville, FL 32218  
[www.concretestainingtechs.com](http://www.concretestainingtechs.com) 904-887-5281
- B. Substitutions: None permitted

### **2.2 PRODUCTS**

- A. Planetary, counter rotating 3 head or 4 head variable speed floor grinder with at least 600 pounds of down pressure.
- B. Dust extraction system for above grinders incorporating HEPA filter(s) capable of containing airborne dust.
- C. Hand or edge grinders with dust extraction or dust suppression attachment
- D. Grinding heads – Approved Diamond Grit
  - 1. Metal bonded diamonds: 40, 80, 150, 300 grit
  - 2. Resin bonded diamonds: 100, 200, 400, 800, 1500, 3000 grit
- E. High speed burnisher – minimum 27 inch head generating 2,200 rpm or greater
- F. Diamond impregnated burnishing pads
- G. DiamondGuard concrete densifier by QuestMark Flooring.
- H. DiamondGuard Plus stain resistant densifier by QuestMark Flooring.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Verification of Conditions: Examine surfaces scheduled to receive the work of this section for defects that will adversely affect the execution and quality of the work. Do not proceed until unsatisfactory conditions are corrected. Provide in writing to Owner a list of the conditions.
- B. New Concrete: Confirm that a minimum of 28 days has elapsed before installation can begin. Also confirm if curing agents or hardening agents have been applied.

### **3.2 PREPARATION**

- A. Cleaning and preparation:
  - 1. Remove paint droppings by scraping, solvent stripper, and damp cloth. Do not use stripper with acidic pH.

2. Remove oil spots with emulsifier and oil absorbent material followed by detail scrub with high pH detergent.
3. Scrub floor with automatic scrubber capable equipped with soft brushes or pads. Use proper dilution of pH neutral detergent.

### **3.3 POLISHING**

- A. Follow the polishing guidelines listed below for floor surfaces that meet the Minimum Local Value Flatness and Levelness tolerances and surface finish specified.
  1. Repair and fill any surface cracks as necessary
  2. Thoroughly clean the floor surface as specified in Section 3.02
  3. Start the process with an 80 grit metal bonded diamond pass or lower until a uniform scratch pattern is developed. If a 40 grit is used, it will need to be followed by the 80 grit.
  4. Continue the process with a 150 grit metal bonded diamond pass.
  5. Install penetrating densifier as per manufacturer's recommendation.
  6. Continue the process with a 300 grit metal bonded diamond pass.
  7. Begin the polishing process with a 100 and/or 200 resin bonded diamond pass.
  8. Continue polishing with a 400 grit resin bonded diamond pass.
  9. Continue polishing in succession with each resin diamond as listed below pass to progressively polish the floor slab to the desired level:
    - a) 800 grit resin bonded diamonds – low gloss
    - b) 1500 grit resin bonded diamonds – medium gloss
    - c) 3000 grit resin bonded diamonds – high gloss
  10. Apply stain resist denifier/protective surface treatment. Use of microfiber applicator required.
  11. High speed burnish with a 1500 grit (or higher) diamond impregnated burnishing pad to complete the floor finish
  12. Polished floor surface finish edges by stationary objects including interior partition walls need to be addressed in accordance with the specified notes on the finish schedule.

### **3.4 CLEANUP**

- A. Dispose of used materials in accordance with local regulations. Concrete dust collected from the installation of the system shall be the responsibility of the originator of the work.

### **3.5 PROTECTION**

- A. Keep premises clean and free of debris.
- B. Protect adjoining surfaces from damage, dust and spatter related to the work of this section.
  1. Repair damage caused by the work of this section.
  2. Clean dust and spatter from adjoining surfaces.

- C. Advise all contractors, vendors and others working in the areas completed that the concrete slab surface is the finished floor and is to be protected accordingly as in Section 1.05 F.
- D. Protect floors from damage until Grand Opening. Use of plastic sheeting is not permitted.
- E. Follow system manufacturer's instruction for cleaning to ensure proper protection from dirt and debris.

**3.6 INSPECTION**

- A. Request acceptance by Owner's Representative for the finished floor.
- B. Correct all unacceptable work to the satisfaction of the Owner's Representative.