

**SECTION 03 90 00**  
Formatted Specification for the  
**ULTRAFLOOR® Concrete Restoration & Cleaning**

**PART I – GENERAL**

**1.01 SUMMARY**

- A. This is the specification for ULTRAFLOOR® Architectural Polished Concrete Maintenance System
- B. Complete installation details are provided in the DIAMATIC® Technical Brochures available at [www.diamaticusa.com](http://www.diamaticusa.com), [www.ultraflor.com](http://www.ultraflor.com).

**1.02 SECTION INCLUDES**

- A. Products and procedures for the initial and long term maintenance of the ULTRAFLOOR® Architectural Polished Concrete Maintenance System.

**1.03 SUBMITTALS**

- A. Product Data: Submit Manufacturer's technical literature for each product indicated, specified or required. Include manufacturer's technical data, application instructions, recommendations and MSDS.
- B. Maintenance Data: Provide manufacturer's instructions for maintenance of installed work, including methods and frequency recommended for maintaining optimum condition under intended use. These instructions should contain precautions against cleaning products and or methods, which may be detrimental to finishes and performance.

**1.04 QUALITY ASSURANCE / WARRANTY**

- A. Manufacturer Qualifications: The ULTRAFLOOR® DIAMATIC® Polished Concrete System consists of a process and products engineered and manufactured by DIAMATIC. Any substitutions are not permitted and void warranty.
- B. Installer Qualifications:
  - a. Installer must be a DIAMATIC® ELITE installer for the ULTRAFLOOR® Architectural Polished Concrete System, including the use of DIAMATIC® concrete treatments including the maintenance chemical treatments and application procedures.
  - b. An ULTRAFLOOR® certified competent supervisor must be maintained on site during all times during which specified work is performed.
  - c. A current list of qualified installers may be obtained through DIAMATIC MANAGEMENT SERVICES, DIAMATIC® USA 866-295-5512
- C. Static Coefficient of Friction: A reading of not less than 0.5 for level floor surfaces shall be achieved and documented as determined by certified an NFSI walkway auditor using the ASTM D-2047 quality control test.

- D. Dynamic Coefficient of Friction: A reading not less than 0.6 for level floor surfaces shall be achieved and documented as determined by certified an NFSI walkway auditor using the ANSI B101.3 quality control test.
- E. Test Reports: Comply with the provisions of the following specifications and standards, except as otherwise noted or specified, or as accepted or directed by the Owner and/or Architect. All test data shall be recorded and submitted upon completion of job.
  - a. Section 03 30 00, Cast-In-Place Concrete.
  - b. Section 03 90 00, Concrete Restoration and Cleaning.
  - c. ASTM D-523, Standard Test Method for Measurement of Gloss of High-Gloss Surfaces by Abridged Goniophotometry.
  - d. ASTM D-5767-95 Distinctness of Image (DOI).
  - e. Post installation inspection to verify that the system was installed correctly and that all surfaces are performing as expected. Any touch-up or repairs should be completed before instituting any maintenance program.
- F. Failure to follow the maintenance guidelines detailed in this specification will result in cancellation of any warranty expressed or otherwise implied.

#### **1.05 DELIVERY, STORAGE AND HANDLING**

- A. Deliver all materials in original containers, bearing manufacturer's labels indicating brand name and directions for storage, factory numbered and sealed until ready for installation.
- B. Maintain copies of all chemical MSDS, and Technical data sheets for all products.
- C. Store all materials in a dry, climate-controlled environment at a minimum of 55°F (13°C) and maximum of 85°F (29°C).

### **PART 2 – PRODUCTS**

#### **2.01 SYSTEM INTEGRITY**

- A. The ULTRAFLOOR® Architectural Polished Concrete Maintenance System is an engineered and integrated complete system. Any variance or substitutions from this system must be approved in writing from DIAMATIC in advance of its use or the warranty will be void.

#### **2.01 MATERIALS**

##### **A. DIAMATIC® EQUIPMENT**

1. DIAMATIC MPS-1827LP, MPS-1027E weighted burnisher / micro polisher
2. DIAMATIC FLOR-GRIT™ PADS, diamond impregnated pads for restorative polishing. Soft pad, hogs hair or white pad for daily cleaning.
3. Other approved equipment would include an Auto-Floor Scrubber equipped with a soft or diamond impregnated pad for cleaning and buffing the surface.

## B. ULTRAFLOOR® DIAMATIC® CONCRETE TREATMENT CHEMICALS

1. DIAMATIC® FLOR-FINISH™ Stain and Wear Protection Treatment (high-gloss).
2. DIAMATIC® FLOR-CLEAN™ DC Neutral pH Daily Cleaner
3. DIAMATIC® FLOR-CLEAN™ CR Polished Concrete Cleaner-Restorer

### PART 3 – EXECUTION

#### 3.01 EXAMINATION

- A. Inspect all concrete substrates and conditions under which the ULTRAFLOOR® Architectural Polished Concrete Maintenance System will be used.
- B. Verify that all surfaces and site conditions are ready to receive work; document and correct conditions detrimental to timely and proper installation of work. Beginning work constitutes acceptance of substrate condition.

#### 3.01 GENERAL MAINTENANCE

- A. Restrict using water on the surface for 72 hours after initial installation. The surface should not be cleaned using a string mop for 60 days to avoid streaking of the FLOR-FINISH™. Avoid using mats or treated coverings for a minimum of 14 days to allow the finish to fully cure.
- B. DO NOT USE cleaners that are acidic or have citrus (de-limonene) or butyl compounds. Although the ULTRAFLOOR® DIAMATIC® Polished Concrete System is chemical and stain resistant, the application of these high acid cleaners may etch the surface and cause a residual stain. Regular maintenance and cleaning will help prolong surface shine.
- C. Specific maintenance requirements may vary for each project depending on the use and amount of traffic on the surface. Consult your ULTRAFLOOR® Certified installer for specific maintenance requirements.

#### Daily Maintenance

- A. Once the system is fully cured out (min. 72 hours), routinely sweep, dry mop, use of a high quality micro-fiber dust mop is the best method. FLOR-CLEAN™ DC may be used when soils or stains must be removed. Any standing water should be removed immediately after cleaning.
- B. An auto-scrubber may be used if equipped with a vacuum system to remove any standing water. The equipment tank shall use FLOR-CLEAN™ DC diluted in clean water. The scrubber shall be equipped with a soft pad only, DO NOT USE A BRUSH attachment.

#### Weekly Maintenance

- A. An auto-scrubber may be used if equipped with a vacuum system to remove any standing water, the equipment tank shall use FLOR-CLEAN™ DC diluted in clean water. The scrubber shall be equipped with a soft pad only, DO NOT USE A BRUSH attachment.

- B. Use of a BURNISHER equipped with a FLOR-GRIT pad may be used as needed to restore gloss to specified levels. An 800,1500, or 3000 grit pad is recommended.

#### **Stain Removal**

- A. An auto-scrubber may be used with FLOR-CLEAN™ CR to remove small spills or stains. For more difficult stains or stains that have set for over 1 hour we recommend using an electric burnisher with an 800 DIAMATIC FLOR-GRIT™ Pad. Using water only run the pad over the affected area slowly until the stain is removed. If needed use a small spray bottle with the FLOR-CLEAN™ CR diluted with 6 parts of water.
- B. Allow the area to dry completely and use a 1500 FLOR-GRIT™ Pad to restore the gloss levels.

#### **Etched Concrete**

- A. If the surface has been etched by acidic exposure the following steps may be followed. Use a 200 FLOR-GRIT™ Pad with the diluted FLOR-CLEAN™ CR (6:1 with water) very slowly until the stain has been removed and the surface is smooth to the touch. Allow the area to dry and follow with an 800 and 1500 grit pad to restore mechanical gloss.
- B. Lightly spray the area with FLOR-FINISH™ (3000 FT' per gallon). Allow to dry 15 minutes and re-burnish using the 1500 grit pad. Be cautious not to over spray the FLOR-FINISH™ as streaks will develop in the finish.

#### **Extended Maintenance**

- A. After thorough cleaning with the DIAMATIC® FLOR-CLEAN™ CR, follow up using the auto-scrubber and the FLOR-CLEAN™ CR Cleaner-Restorer to restore original gloss and increase the stain resistance on the surface. Follow all technical data instructions for proper application or consult the original floor installer for assistance.

END OF SECTION

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