PRODUCT DATA SHEET

1. PRODUCT NAME

MirrorCrete®

POLISHED CONCRETE SYSTEM

2. MANUFACTURER

Floor Seal Technology, Inc.
1005 Ames Ave.
Milpitas, CA 95035
(800) 572-2344
www.floorseal.com

3. REFERENCE DATA

American Society for Testing and Materials:

ASTM C779 – Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.

American Concrete Institute:

ACI 302.1R-89 – Guide for Concrete Floor and Slab Construction.

4. PRODUCT DESCRIPTION

The MirrorCrete System utilizes *MirrorCrete Hardener* to penetrate and chemically densify the surface of the concrete. The hardened surface is then ready to receive the MirrorCrete Diamond Grinding process to polish the concrete to a variety of different finish levels.

MirrorCrete Sealer may be applied after the Diamond Grinding process to provide immediate gloss and protection. Spray, roll, or brush one coat at 1,500 – 3,000 square feet per gallon. Allow to dry 1 - 2 hours.

MirrorCrete Maintenance Cleaner is recommended for ongoing maintenance of the completed MirrorCrete floor. This product will continue to improve the appearance and hardness of the floor by continually introducing colloidal silica into the surface.

Optional Products:

Additionally, an acetone or water-based dye may be applied as part of the MirrorCrete system to provide a decorative colored finish.

5. PREPARATION

Concrete surface must be free of contaminants, curing compounds, construction debris, and other trades. Scrape, sweep, and clean floor using an auto-scrubber and non-citrus based cleaner.

6. INSTALLATION

Grind concrete with diamond-bonded metal disks with increasing grit finishes. Apply *MirrorCrete Hardener* per installation guidelines before proceeding with additional polishing steps. Clean surface and polish concrete with diamond-bonded resin disks to specified finish. See Installer's Guide for detailed installation instructions.

When a concrete dye is to be used, apply dye immediately before *MirrorCrete Hardener* application. Following final polishing pass, apply *MirrorCrete Sealer* to provide protection of dyed surface.

7. MAINTENANCE

A MirrorCrete floor is designed to require minimal maintenance. A standard janitorial cleaning regimen utilizing a floor scrubber (Tennant or similar) and *MirrorCrete Maintenance Cleaner* is recommended. This process will enhance the shine and surface density over time. Do not use citrus or solvent based cleansers, as they may dull the finish of the floor.

8. AVAILABILITY

The MirrorCrete System is manufactured and installed by Floor Seal Technology, Inc. Contact your local representative for pricing and installation availability.

9. TECHNICAL SERVICES

The MirrorCrete System may be optimized by contacting Floor Seal Technology, Inc. for concrete design consultation on new concrete projects.

10. WARRANTY

A MirrorCrete Polished Concrete Floor is a permanent improvement of your existing floor. MirrorCrete does not require recoating, replacement, or expensive maintenance. Floor Seal Technology warrants the performance of your MirrorCrete Floor against defects in product and workmanship for a period of 10 years when properly maintained.

Please refer to actual warranty for terms and conditions of our warranty.

11. LEED® CONTRIBUTIONS

The intent of the US Green Building Council's Leadership in Energy and Environmental Design (LEED®) program is to provide design guidelines and a third-party certification tool for sustainable building practices. Products are not certified under the LEED® program. However, use of MirrorCrete Polished Concrete System on your project may contribute towards the following credits:

MR Credit 1.1– Building Reuse

Intent - Extend the life cycle of existing building stock, conserve and retain cultural resources, reduce waste, and reduce environmental impact with regards to manufacturing materials and their transport

Requirement – Reuse existing building structure.

The MirrorCrete Polished Concrete System beautifies and improves the existing concrete slab. This reuse of the concrete slab eliminates the need for new floor covering materials and VOC-containing adhesives.

MR Credit 4 – Recycled Content

Intent – Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extracting and processing of virgin materials.

Requirement – The sum of postconsumer plus ½ preconsumer recycled content must constitute at least 10% or 20% of total materials used.

MirrorCrete Hardener is mixed 4:1 with postconsumer recycled water; therefore 80% of its material cost can contribute towards this credit. *MirrorCrete Sealer* is mixed 1:1 with recycled water; therefore 50% of its material cost can contribute towards this credit. *MirrorCrete Maintenance Cleaner* is generally used after the completion of the project and not as part of the installation; therefore it is excluded from this credit calculation.

IEQ 4.2 – Low Emitting Materials, Paints & Coatings:

Intent - Reduce the quantity of indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installers and occupants.

Requirements – Comply with South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

All products used in the MirrorCrete Polished Concrete System contain low (<25g/L) or no amounts of VOCs, meeting the above rule.

EA Credit 1 – Optimize Energy Performance

Intent - Reduce environmental and economic impacts associated with building energy usage.

Requirements – Two methods of achieving this credit include: reduce demand for energy and improve efficiency of HVAC, lighting, and building envelope. Improvements are measured against a baseline set by ASHRAE / IESNA 90.1 – 2004. Additional credits are earned for each 3.5% marginal gain over the baseline.

MirrorCrete polished floors increase the density, sheen, and reflectivity of existing concrete slabs. The increased reflectivity reduces the demand for lighting in the building. Additionally, the thermal mass of a polished concrete slab helps to retain the temperature of the building envelope, thereby reducing the energy required by the building's HVAC system.