

1. PRODUCT NAME

TekFlor™

2. MANUFACTURER

Floor Seal Technology, Inc.
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Milpitas, CA 95035
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3. REFERENCE DATA

American Society for Testing and Materials:

ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars

ASTM C348 – Standard Test Method for Flexural Strength of Hydraulic Cement Mortars

ASTM F710 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

International Concrete Repair Institute:

Concrete Surface Profile Index

4. PRODUCT DESCRIPTION

The TekFlor™ System is a durable and attractively consistent engineered cement floor topping. TekFlor™ is well suited to applications demanding even color tone and floor smoothness. TekFlor™ can be finished from a matte to gloss finish utilizing diamond embedded polishing discs and MirrorCrete polishing products.

- Compressive Strength (ASTMC109): 6,000+psi
- Flexural Strength (ASTM C348): 800psi

Optional Products:

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.

Additionally, an integral color pigment can be added to the cement topping to provide a consistent color tone across the floor. Select aggregates can also be added to provide a desired decorative look.

MES 100 may be added to the system to treat concrete substrates with excessive moisture vapor or alkalinity transmission.

5. PREPARATION

TekFlor™ requires a mechanical preparation of the concrete slab by shot blasting and edge-grinding. Concrete should be textured to an International Concrete Repair Institute's Concrete Surface Profile 3 to 4. Surface must be free of dust, debris, contaminants, and weakened or defective concrete before installation begins.

Test concrete substrate for moisture and alkalinity content per the most recent version of ASTM F710. If excessive moisture or alkalinity is present, prime substrate with MES 100 moisture control system. If moisture and alkalinity are less than 75% RH and 9 pH respectively, prime substrate with CemPrime E and broadcast 30/60 grit sand into wet primer.

6. INSTALLATION

Apply the engineered cement topping at a minimum thickness of 3/8-inch over primed substrate. Material will self-level, so deflected or uneven slabs may require additional material to achieve desired flatness.

Once cement topping has dried, grind the surface with 400-grit diamond impregnated concrete polishing discs. Proceed with finer grits if glossier finish is desired. After final polishing pass, apply MirrorCrete Sealer to the floor to provide protection and longevity. An optional janitorial wax product may also be applied to provide additional initial protection or desired aesthetic effect.

7. MAINTENANCE

TekFlor™ is designed to require minimal maintenance. A standard janitorial cleaning regimen utilizing a floor scrubber (Tennant or similar) and neutral 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

TekFlor™ is manufactured and installed by Floor Seal Technology, Inc. Contact your local representative for pricing and installation availability.

Contact Floor Seal Technology to determine contribution towards this credit.

9. TECHNICAL SERVICES

TekFlor™ may be optimized by contacting Floor Seal Technology, Inc. for concrete design consultation on new concrete projects.

10. WARRANTY

Floor Seal Technology warrants the performance of your TekFlor™ against defects in product and workmanship for a period of 1 year.

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 TekFlor™ on your project may contribute towards the following credits:

IEQc 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 TekFlor™ system contain low (<50g/L) or no amounts of VOCs, meeting the above rule.

MRc 5 – Regional Materials

Intent – Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.