



Geo-Seal EFC



Product Description

Basic Use: Geo-Seal EFC is a highly chemically resistant, impervious epoxy coating specially formulated to protect existing structures from contaminant vapor intrusion without the need for additional concrete protection. Geo-Seal EFC is resistant to both PCE, TCE, and other organic solvents commonly found in contaminated soils. Applied as the key component of EPRO's Geo-Seal EFC coating system, Geo-Seal EFC can be combined with various functional topcoat materials to create an abrasion-resistant wearing surface or any desired aesthetic appearance; this optional enhancement ensures Geo-Seal EFC can meet the performance needs of any project. Most commonly applied to horizontal concrete substrates, various functional primers part of the Geo-Seal EFC system can be utilized for various substrate conditions common in existing structures, including oil saturated concrete and substrates with high moisture content and high moisture vapor drive.

Composition: Geo-Seal EFC is a plural component, zero VOC, 100% solids, low odor, medium viscosity, highly chemically resistant impermeable epoxy coating.

Benefits

- Virtually eliminates chemical vapor intrusion through concrete without the need for additional concrete protection or removal of the concrete slab.
- Specially formulated to provide superior chemical resistance to soil contaminants including TCE, PCE and petroleum hydrocarbons.
- Reduces overall remediation costs while providing multiple options for surface finishes including cast aggregate or floor coverings.
- Low odor and fast cure times reduce the application impact on existing buildings.
- Zero VOCs, 100% solids, USDA and FDA approved.

Limitations

- Material should be stored above 40°F and not allowed to freeze.
- Ambient application temperature range is recommended between 40°F and 90°F.
- Cold temperatures will prolong cure time and high temperatures will result in shortened working times.
- Proper substrate preparation including the use of certain primers and concrete surface repair must be employed in accordance with the manufacturer's application guidelines.

Technical Data

Shelf life: 1 year when maintained between a 40°F and 80°F.

Properties: See physical properties table

Specification Writer: Contact EPRO before writing specifications on this product. Geo-Seal system assemblies should be reviewed in order to meet project specific site conditions.

Installation

Surface Preparation: All surfaces shall be prepared in accordance with manufacturer's specifications and ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. Apply the appropriate primer based on the specific conditions of the substrate following that primer's application guidelines. See EPRO's Technical Bulletin: Selecting a Primer.

Application: Please refer to manufacturer's specifications. Mix at lowest RPM setting. Geo-Seal EFC is applied at a rate of 80 square feet per gallon to a total applied thickness of 20 mils.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Geo-Seal EFC is available in 1 gal. a 5 gal. kits.

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.



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Equipment

Disposable brushes, variable low speed drill with impeller mixing paddle, non-shedding phenolic core rollers, and V-notched rubber squeegees and/or guage rake and trowels.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

Typical Physical Properties

Physical Property	Test Method	Value
Color		Standard and custom colors
VOC Content		0 gr./lt.
Shelf Life		1 year
Viscosity at 77°F		1000-2000 cps
Viscosity at 60°F		2200-4000 cps
Compressive Strength	ASTM D695	14,500 PSI (16,500 PSI with aggregate)
Flexular Strength	ASTM D790	19,200
Tensile Elongation	ASTM D638	1.0%
Abrasion Resistance	ASTM D1044	20-25 mg.
Bond Strength	ACI 503	>350 psi 100% concrete failure
Hardness (Shore D)	ASTM D 2240	89-93
Impact Resistance	ASTM D 2794	160 in./lbs.
Freeze Thaw Resistance	ASTM C666	300 cycles pass

Packaging: 1 gallon and 5 gallon kits.

Mix Ratio by Volume: 2:1

Mix Ratio by Weight: 2.16:1 (lbs.)

Minimum Substrate Application Temperature: 40°F

Pot Life at 77°F: 15 min.

Dry to Touch (50°F-90°F): 7 to 12 hours

Recoat Time (77°F): 7 to 8 hours

Recoat Time (60°F): 10 to 12 hours

Light Foot Traffic (50°F-90°F): 7 to 12 hours