



System: Geo-Seal 100 Vapor Intrusion Barrier (Patent Protected - US 7,985,460)

Application: Underslab Contaminant Vapor Barrier System Thickness: 96 mils

	1st Layer	2nd Layer	3rd Layer
Product Name	Geo-Seal BASE 18 mil	Geo-Seal CORE 60 mil	Geo-Seal BOND 18 mil

DESCRIPTION

Geo-Seal® 100 is the industry-leading sub-slab vapor intrusion barrier for eliminating vapor intrusion for any environmentally-impaired site. With more than 50 million square feet installed, the patented Geo-Seal® 100 system has more than 20 years of demonstrated success.

Installed between the foundation slab of the building and permeable subgrade, Geo-Seal 100 eliminates vapor intrusion pathways and stops contaminant vapors from permeating through the slab and into a building.

Designed to be thick and robust, Geo-Seal 100 can withstand the rigors of modern-day construction by providing high tensile, puncture resistance and robust seals around penetrations and terminations.

Thoroughly tested and proven highly effective against VOC vapor, such as chlorinated solvents and petroleum hydrocarbons, as well as methane gas, Geo-Seal 100 earns full approval with federal and state regulatory agencies. Geo-Seal 100 provides peace of mind knowing that a healthy indoor air environment will keep occupants safe while also significantly reducing remediation costs and speeding site construction.

BENEFITS

- **Durable:** Three layers of complementary contaminant vapor barrier materials create a thick and redundant composite system superior to single sheet barrier systems.
- **Proven:** Industry standard and proven technology, with 20 year installation history and over 50 million square feet installed.
- **Chemically Resistant:** Constructed with multiple highly chemical resistant HDPE sheets and polymer-modified asphaltic membrane.
- **Seamless:** Spray-applied monolithic layer ensures complete sealing of building foundation without mechanical fastening.
- **Bonded:** Mechanically adheres directly to the foundation slab.
- **Single-Source Warranty:** EPRO can be a single point of contact to address building vapor intrusion and waterproofing needs.

LIMITATIONS

- Do not apply below 20°F or to damp, frozen or contaminated surfaces.
- Contact EPRO for waterproofing system recommendations.

SPECIFICATIONS, DRAWINGS, AND TECHNICAL ASSISTANCE

The most current specifications and drawings can be found on www.eproinc.com. For project specific details contact EPRO directly, or your local EPRO representative.

Site conditions, performance goals, and budget determine which system is most appropriate for a given project. For more information regarding product performance, testing, plan review, or general technical assistance, please contact EPRO.

WARRANTY

EPRO provides a wide range of warranty options for Geo-Seal systems. For a project to be eligible for any warranty option beyond a 1-year material warranty, a Geo-Seal Authorized Applicator must be used and the project must be registered and approved by EPRO prior to the commencement of any product application.

Warranty options available for this system include:

- Material warranty
- Labor and Material Warranty
- Longer warranty periods are available. Contact EPRO for more information.

Physical Property	Test Method	Value
Tensile Strength	ASTM D 412.....	662 psi
Elongation	ASTM D 412.....	45%
Adhesion to Concrete	ASTM D 903.....	8 lbf/in
Puncture Resistance	ASTM D 1709.....	310 lbf
Hydrostatic Head Resistance.....	ASTM D 5385.....	100 psi (231 ft)
Water Vapor Transmission	ASTM E 96033 perms
Soil Burial	ASTM D 4068.....	Passed
Heat Aging.....	ASTM D 4068.....	Passed
Environmental Stress Cracking.....	ASTM D 1693.....	Passed
Oil Resistance	ASTM D 543 & D 412.....	Passed
Methane Transmission	ASTM D 1434.....	Passed
TCE Diffusion Rate		$7.1 \times 10^{-19} \text{ m}^2/\text{sec}$
Benzene Diffusion Rate.....		$7.1 \times 10^{-19} \text{ m}^2/\text{sec}$