




System: Geo-Seal Vapor Intrusion Barrier (Patent Protected - US 7,985,460 B2)

Application: Underslab Containment Vapor Barrier      System Thickness: 96 mils

	1st Layer	2nd Layer	3rd Layer
Product Name	Geo-Seal (geotextile/HDPE) 18 mil	Geo-Seal CORE 60 mil	Geo-Seal (HDPE/geotextile) 18 mil

## DESCRIPTION

Geo-Seal® is an innovative sub-slab vapor intrusion barrier system that eliminates vapor intrusion for brownfields or any environmentally-impaired site. With more than 50 million square feet installed, the patented Geo-Seal system has been in use for over a decade.

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

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

## BENEFITS

- **Redundant:** Three layers of complementary containment vapor barrier materials create a redundant composite system superior single-component alternatives.
- **Chemical Resistant Materials:** Made from highly chemical resistant HDPE and polymer modified asphaltic membrane.
- **Seamless:** Spray-applied Core layer ensures complete sealing of the system without the use of mechanical fastening.
- **Bonded:** Mechanically bonds directly to the foundation slab.
- **Proven:** Industry standard and proven technology, with 10+ years and over 50 million square feet installed
- **Single-Source Warranty:** Combine with EPRO below-grade and deck waterproofing and contaminant vapor intrusion.

## LIMITATIONS

- Do not apply below 20°F or to damp, frosty or contaminated surfaces.
- Not designed to function as waterproofing. Contact EPRO for waterproofing system recommendations.

## SPECIFICATIONS, DRAWINGS, AND TECHNICAL ASSISTANCE

The most current specifications and drawings can be found on [www.eproinc.com](http://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 96 .....	.033 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.....		$7.1 \times 10^{-19} \text{ m}^2/\text{sec}$