

### Product Description

GEO VAPOR is a high performance, multi-layer underslab vapor barrier designed to retard moisture migration through concrete slabs and concrete walls to protect your structure from:

- **MOLD:** GEO VAPOR reduces moisture condensation within a structure, impeding the growth of molds, mildews, and fungi.
- **MOISTURE:** GEO VAPOR protects flooring materials by maintaining moisture levels well below the requirements of ASTM E-1745-11.
- **RADON:** GEO VAPOR is used as a component of radon mitigation systems to protect indoor air quality and occupant health.

GEO VAPOR is one of the most effective underslab vapor barriers on the market today! Benefits include:

- Ultra low moisture vapor permeability
- Industry leading puncture resistance
- High tensile tear strength
- Resistance to decay

GEO VAPOR 15 meets an impressive virtually zero-perm rating at **less than 0.01 perms after conditioning to exceed requirements in ACI 302.2R-06, section 9.3.**

GEO VAPOR is manufactured to strict conformance specifications under our ISO 9001-2008 Certified Management System to consistently exceed ASTM standards and project expectations. GeoCHEM's accredited lab ensures GEO VAPOR meets the highest possible quality standards across multiple industries. GEO VAPOR is supported with independent testing. Results are available upon request, as required under ASTM E-1745-11. GEO VAPOR is readily available through nation-wide distribution:

- Available in 6, 10, and 15 mil for project flexibility
- Larger roll sizes equal lower installation costs



Vapor Barrier - Commercial

### APPLICATIONS

- Underslab Vapor Retarder/Barrier
- Foundation Wall Vapor Retarder
- Radon Retarder

ASTM E-1643 also provides general installation information for vapor retarders. All VaporBlock series materials can be installed with print or color facing up or down and will provide the same performance.

ASTM E-1745-11, "Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs".

# GEO VAPOR GV6, GV10, GV15



High Performance Underslab Vapor Barrier

		GEO VAPOR GV6	GEO VAPOR GV10	GEO VAPOR GV15	ASTM E 1745-11 Class A, B & C <sup>1</sup>
PROPERTIES	TEST METHOD				
APPEARANCE		Blue	Blue	Blue/White	
THICKNESS, NOMINAL		6 mil	10 mil	15 mil	
ROLL SIZE		15 ft x 200 ft	15 ft x 200 ft	12 ft x 200 ft	
WEIGHT		29 lbs/MSF	49 lbs/MSF	73 lbs/MSF	
CLASSIFICATION	ASTM E1745-11		CLASS A, B & C	CLASS A, B & C	Class A, B, or C
TENSILE STRENGTH AVERAGE MD & TD (NEW MATERIAL)	ASTM E154 Section 9, (D882)	32 lbs/in	52 lbs/in	78 lbs/in	Class A = 45 lbs/in Class B = 30 lbs/in Class C = 13.6 lbs/in
(AFTER EXPOSURE)		25 lbs/in	53 lbs/in	80 lbs/in	Minimum
PUNCTURE RESISTANCE	ASTM D1709 Method B	>1500 g	>2600 g	>3300 g	Class A = 2200 g Class B = 1700 g Class C = 475 g Minimum
PERMEANCE (NEW MATERIAL)	ASTM E154 Section 7 ASTM E96 Procedure B	0.090 *Perms	0.0146 *Perms	0.0057 *Perms	Class A, B, & C
(AFTER CONDITIONING)	ASTM E154 Section 8, E96 Section 11, E96 Section 12, E96 Section 13, E96	0.105 0.124 0.097 0.099	0.0153 0.0151 0.0160 0.0181	0.0076 0.0075 0.0076 0.0053	0.1 *Perms Maximum
WVTR	ASTM E96 Procedure B	0.080 grain/hr-ft <sup>2</sup>	0.0084 grain/hr-ft <sup>2</sup>	0.0023 grain/hr-ft <sup>2</sup>	
MAXIMUM USE TEMPERATURE		180° F	180° F	180° F	
MINIMUM USE TEMPERATURE		-70° F	-70° F	-70° F	

\* grains/(ft<sup>2</sup>-hr-in-Hg)    \*\* g/(24hr-m<sup>2</sup>-mm Hg)    <sup>1</sup> Referencing ASTM E1745-11

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. GEOCHEM, INC. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

GeoCHEM, Inc. - Phone: (907) 562-5755 ~ Fax: 206.219.3740  
 WA State Sales - Phone: (206) 774.8777 ~ Toll Free: 1 (800) 490.5320  
<http://www.geocheminc.com>

