



System: Geo-Seal EV80 Vapor Intrusion Barrier

Application: Underslab Contaminant Vapor Barrier

System Thickness: 79 mils

	1st Layer	2nd Layer	3rd Layer
Product Name	Geo-Seal EV30 31 mil	Geo-Seal CORE 30 mil	Geo-Seal BOND 18 mil

DESCRIPTION

Geo-Seal EV80 is a composite membrane that uniquely combines an Ethylene Vinyl Alcohol (EVOH) sheet membrane, seamless spray-applied polymer-modified asphalt and an HDPE protection course to create a composite vapor intrusion barrier system that addresses a wide range of project conditions and contamination.

Incorporating newer film technologies such as EVOH into proven composite vapor intrusion barrier systems while also utilizing HDPE and polymer-modified asphalt, Geo-Seal EV80

achieves a high level of chemical resistance at lower overall mil thickness than Geo-Seal 100.

Geo-Seal EV80 is ideal for developments willing to compromise on total system thickness and some barrier durability but still desire a highly chemically resistant barrier.

BENEFITS

- **EVOH:** EVOH provides enhanced chemical vapor protection and lower permeation rates than thicker HDPE membranes.
- **Durable:** Three layers of complementary contaminant vapor barrier materials create a thick and redundant composite system superior to single sheet barrier systems.
- **Chemical Resistant:** Constructed with multiple highly chemical resistant sheets and polymer-modified asphaltic membrane to form a robust composite barrier.
- **Seamless:** Spray-applied 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
Adhesion to Concrete	ASTM D 903.....	8 lbf/in
Puncture Resistance	ASTM D 1709.....	310 lbf
Water Vapor Permeance.....	ASTM E96	0.035 perms
Water Vapor Transmission	ASTM E96B	0.014 grains/h-ft ²
PCE Diffusion Rate.....	Geokinetics	1.62 x 10 ⁻¹⁷ m ² /sec
Benzene Diffusion Rate.....	Geokinetics	1.5 x 10 ⁻¹⁵ m ² /sec
Classification.....	ASTM E1745	Class A, B & C
Life Expectancy.....	ASTM E154	Infinite