

CASE STUDY: Geo-Seal[®] Favored by Engineer over Simple Spray-Applied Membrane for More Effective Chemical Resistance

Compass Bank – Birmingham, AL

Compass Bank was constructed over a site with chlorinated solvents residing in the subsurface. A vapor intrusion membrane was sought to prevent vapor intrusion into the building from the contamination below. Initially, a simple spray-applied asphalt/latex material was specified. However, TGE Resources requested Geo-Seal[®] be approved by the design engineer because of its superior chemical resistance and ability to prevent chlorinated solvent vapors from migrating into the new building. Geo-Seal was approved by Brownfield Subslab and favored as a superior alternative to the specified barrier because of its ability to resist contaminant permeation breakthrough for periods 18X longer than a simple asphalt/latex membrane. Geo-Seal proved to be a cost effective choice for the owner and successfully installed along with the Geo-Seal Vapor-Vent trenchless venting system. Overseeing the installation was Brownfield Subslab, a certified Geo-Seal inspector.



Geo-Seal BASE layer

Project Highlights:

- Geo-Seal's triple-layer composite protection and high puncture resistance provided ease of mind to the engineers looking to mitigate vapor intrusion
- Vapor-Vent Trenchless Vent System installed to collect and remove buildup of vapors beneath the structure
- Installation of 4,000 ft²



Geo-Seal spray-applied CORE layer application

About the Geo-Seal[®] Gas Vapor Barrier

Geo-Seal is the ideal blend of chemically resistant HDPE sheet and spray applied membrane technologies, resulting in the most appropriate gas vapor barrier technology used to eliminate vapor intrusion on Brownfields or environmentally impaired sites. Geo-Seal is a chemically resistant material placed between the subgrade and building foundation to seal off exposure pathways and stop vapor intrusion into buildings. By selecting Geo-Seal, developers can ensure a healthy indoor environment while reducing the cost of site remediation and expediting site construction.



Geo-Seal BOND layer application