

CASE STUDY: Geo-Seal® Installation Saves Manufacturing Facility Owner Time and Money

Manufacturing Facility – York, PA

A 104,000 square foot manufacturing facility required the use of a vapor barrier due to migrating chlorinated solvents in groundwater from a nearby plume. In addition to the vapor barrier, a 30 mil battened and welded PVC sheet was also specified for enhanced protection which required an extended installation time. Five weeks were estimated to install the PVC sheet due to a complex 20,000 square foot office area adjacent to the manufacturing facility. To save time, Geo-Seal® Vapor Intrusion Barrier was installed and eliminated the need for the PVC sheet installation. Geo-Seal contains a triple layer protection that includes a 60 mil spray-applied asphalt/latex layer encapsulated with 2 layers of high density polyethylene, providing a system that is chemically resistant yet easy to install. Our certified applicators implement a smoke test for quality control to identify any voids unseen by the naked eye to ensure the integrity of the membrane. The Geo-Seal system was successfully installed in 10 days, saving the owner 3 weeks of costly labor.



Project Highlights:

- Triple-layer protection consisted of spray-applied membrane encapsulated with HDPE providing chemical resistance and ease of application
- 100,000 ft² of barrier successfully installed in 10 days, saving the owner 3 weeks of costly labor compared to the specified PVC sheet
- Smoke testing procedure ensured integrity of barrier and installation

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.