

CASE STUDY: Major Airline installs Geo-Seal® to Successfully Expand Maintenance Facility

Love Field Airline Facility – Dallas, TX

The Dallas Love Field airport originally opened in 1917 and has over 90 years of aviation use. A major airline decided to expand their current facilities at Love Field which included the construction of a new maintenance facility. An underground storage tank was discovered prior to construction and insufficient historical site records caused concern for potential indoor air vapor in the new building. A vapor intrusion barrier was sought to protect the new structure from potential vapor intrusion and keep the project on schedule. TITAN Engineering along with their client selected Geo-Seal® Vapor Intrusion Barrier based on its enhanced chemical resistance and industry leading 20 year system warranty. The Geo-Seal triple layer protection allows for resistance of contaminant permeation breakthrough for a period 18X longer than that of simple asphalt/latex membranes. Under a system warranty, Land Science Technologies warrants the integrity of the material and the workmanship of the certified Geo-Seal installer against chemical migration into the building.

Project Highlights:

- Triple-layer protection and high puncture resistance addressed concerns over permeation into the building
- Enhanced chemical resistance over spray-applied asphalt/latex material
- Industry leading 20 year system warranty
- Vapor-Vent trenchless system installed to collect and vent vapors from beneath the structure

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.

