Major Airline Installs Geo-Seal® to Successfully Expand Maintenance Facility

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
- Installation of Geo-Seal® allowed project to remain on schedule
- Vapor-Vent™ trenchless system installed to collect and vent vapors from beneath the structure

Site Details

Site Type: Airport

Contaminant of Concern: BTEX, PCH

Vapor Intrusion Solution: Vapor intrusion barrier

Technology Used: Geo-Seal® Vapor Intrusion Barrier

Project Summary

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 warrants the integrity of the material and the workmanship of the certified Geo-Seal installer against chemical migration into the building.

Technology Description

Geo-Seal is a gas vapor management technology designed to eliminate vapor intrusion on Brownfields or any type of environmentally-impaired site. Geo-Seal is a chemically-resistant material placed between the foundation of the building and the soil pad to eliminate vapor intrusion pathways and stop contaminant vapors from permeating through the slab.

By deploying Geo-Seal, developers can ensure a healthy indoor environment while reducing the cost of site remediation and expediting site construction.

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