

Geo-Seal® Receives State Approval From California Department of Toxic Substances Control

Geo-Seal Vapor Mitigation Barrier System Used at Senior Housing Facility

Project Highlights

- Resists contaminant permeation breakthrough for a period 18X longer than simple asphalt/latex membranes
- Installation of 22,000 ft²
- California DTSC Approved

Project Summary

A senior housing facility was constructed over an existing benzene plume creating a concern for exposure to high levels of benzene vapors. Northgate Environmental, with the approval of the California Department of Toxic Substances Control (DTSC), selected Geo-Seal® vapor intrusion barrier to mitigate the vapor intrusion risk associated with the property.

Geo-Seal provides triple-layer protection and high puncture resistance by using two chemically resistant high density polyethylene (HDPE) layers encapsulating a spray-applied asphalt/latex membrane. Geo-Seal exceptional chemical resistance limits the transmission of volatile organic vapors through the membrane. 22,000 square feet was successfully installed at the site.

Overseeing the installation were representatives from the DTSC and Commercial Roof Management, a certified inspector of the Geo-Seal System.

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.



Site Details

Site Type: Housing facility

Contaminant of Concern: Benzene

Vapor Intrusion Solution: Vapor intrusion barrier

Treatment Area: 22,000 ft²

Technology Used:  **Geo-Seal**
Vapor Intrusion Barrier



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