

Historic Site Transformed into Multi-Million Dollar Community Complex Following Installation of Geo-Seal®

Project Highlights

- Approximately 100,000 ft² installed over four buildings in new Dayton, OH community complex
- Geo-Seal® CORE material successfully applied in 25° F temperatures without artificial heating
- As part of the total square footage, applied 16,000 ft² to retrofit the basement of a +100 year old historic mansion
- Triple-layer protection provides maximum vapor intrusion protection to site

Project Summary

The Salvation Army Kroc Center is a multi-million dollar community complex on 17.5 acres. Dayton, OH was one of 29 cities to receive funding from the 1.1 billion dollar donation of the Ray Kroc Family for the development of community centers across the United States.

Environmental concerns arose from a neighboring groundwater plume migrating from a former industrial facility. Geo-Seal Vapor Intrusion Barrier and Vapor-Vent™ trenchless vent system were applied to protect the building from the threat of chlorinated solvent vapor intrusion and alleviate vapor buildup beneath the facility. The application was completed in November during 25° F temperatures.

Geo-Seal's proprietary formula, installation procedures and specialized equipment allowed the product to be installed in cold climate without the use of artificial heat, saving the client considerable time and money.

Technology Description

Geo-Seal is the ideal blend of chemically resistant high density polyethylene (HDPE) sheeting and spray applied membrane technologies, resulting in the most appropriate vapor intrusion barrier technology available to eliminate vapor intrusion into structures built on environmentally impaired sites.

Geo-Seal is a composite system installed between the subgrade and building foundation to seal off exposure pathways and prevent toxic vapors from migrating into structures. By selecting Geo-Seal, developers can ensure a healthy indoor air environment while reducing the cost of site remediation and expediting site construction.



Site Details

Site Type: Commercial space

Contaminant of Concern: PCE, TCE, DCE, and VC

Vapor Intrusion Solution: Vapor intrusion barrier

Treatment Area: 150,000 ft²

Technology Used:  Vapor Intrusion Barrier



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