CASE STUDY: Geo-Seal® Mitigates Vapor Intrusion Risk for New Salvation Army Community Center

Salvation Army Kroc Center – Dayton, OH

The Salvation Army Kroc Center is a multi-million dollar community complex on 17.5 acres. Dayton 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 Geo-Seal 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 these low temperatures without the use of artificial heat saving the client considerable time and money.

Geo-Seal Core Installation

Project Highlights:

- Approximately 100,000 ft^2 installed over 4 buildings
- Geo-Seal CORE material successfully applied in 25°F temperatures without artificial heating
- Applied 16,000 ft^2 to retrofit the basement of a +100 year old historic mansion
- Triple-layer protection course for maximum vapor intrusion protection

Penetration Seals

About the Geo-Seal® Vapor Intrusion Barrier

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.

Sealed BOND Layer

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