Geo-Seal® Receives State Approvals While Eliminating Costly, Time Consuming Multi-Membrane Installation

Project Highlights

- Approximately 55,000 ft² of GeoSeal® installed
- Geo-Seal eliminated the need for more costly and time consuming multiple membrane applications
- Applied in colder temperatures, (below 45°F) without artificial heat, saving the client time and money
- Approved by the State of Delaware for chemical and water protection

Project Summary

The new Kent County Courthouse was in need of gas vapor mitigation resulting from a subsurface contaminant plume. Originally, a spray-applied asphalt/latex membrane for gas vapor protection was specified in addition to a bentonite product for waterproofing protection.

The end result would have required the installation of two membrane systems, one for gas vapor and one for waterproofing. As the project progressed, the construction start was scheduled to take place in the winter. The cold temperatures posed a problem for the installation of the specified gas vapor barrier due to the costly need for tenting and artificial heating, per the manufacturer's requirements.

Alternatively, Geo-Seal Vapor Intrusion Barrier was recommended to eliminate the need for two products to satisfy vapor mitigation and waterproof protection. The use of Geo-Seal also avoided costly and more complicated installation (tenting and heating). Geo-Seal was subjected to a rigorous review process and was ultimately approved by Ten Bears Environmental, the State of Delaware and Moeckel Carbonell Associates because of the ability of one product to provide both chemical and water protection.

Site Details

Site Type: Municipal Building

Contaminant of Concern: cVOC vapors

Vapor Intrusion Solution: Vapor intrusion barrier

Treatment Area: 55,000 ft²

Technology Used: Geo-Seal® Vapor Intrusion Barrier

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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