

Gas vapor mitigation system maintains construction schedule in cold weather

The soil conditions for the site of two 60,000 square foot school buildings in Woonsocket, RI was complicated by contamination from TCE, PCE and petroleum-based soil gas vapors.



PROJECT DETAILS

Hamlet Middle School

Design Engineer: Fuss & O'Niell

General Contractor:
Gilbane Construction

Certified Installer:
Trident Environmental

LOCATION

Woonsocket, Rhode Island

PRODUCTS USED

LIQUID BOOT®
Gas Vapor Mitigation System

The spray applied application of the LIQUID BOOT® gas vapor barrier ensured the project be completed quickly, and with the application of CETCO's leading quality assurance and control procedures such as smoke testing, CETCO was able to provide a membrane that was ensured vapor tight even with the number of penetrations and foundation complexities.

CHALLENGE:

The applicator was held to a stringent construction schedule. There were quite a few mobilizations, meaning that the membrane had to be pieced together throughout the entire project. To make the project even more difficult, the installation was done in the middle of winter so site heating had to be arranged for install.

SOLUTION:

CETCO solutions were chosen based on our company reputation, design assistance and because we were capable of accommodating a tough construction schedule. CETCO was instrumental in helping the engineer complete the proper ventilation and membrane design. Taking into consideration the projects subgrade, BaseFabric™ T-60 was chosen as the proper base layer fabric. Since the source of concern on the job was TCE and PCE, the LIQUID BOOT® gas vapor barrier was selected, as was the ULTRASHIELD™ G-1000 protection course.

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Working in conjunction with the applicator and general contractor, CETCO was able to develop a solid heating plan so the LIQUID BOOT® barrier could be applied in colder temperatures, assuring there wouldn't be any downtime. The engineer was extremely satisfied with the product and installation. The general contractor was very pleased with timing and professionalism of the installer.

RESULT:

Installation of the LIQUID BOOT® gas vapor mitigation system was extremely successful and was able to be installed much quicker than any of the competing products due to its benefit of a spray-application and rapid curing time. CETCO products installed by CETCO trained and certified installers provided the building with proven protection against vapor intrusion while also saving the customer time and money.

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