

CETCO vapor mitigation system chosen as voc protection barrier for school campus

The Mott Haven School Campus was to be built on a former manufacturing site with residual contaminants in the soil.



PROJECT DETAILS

Mott Haven School

Engineer: The Shaw Group, Inc.

Certified Installer:

Restor Technologies, Inc.

LOCATION

Bronx, NY

PRODUCTS USED

LIQUID BOOT®

Gas Vapor Mitigation System

The top left image shows the installed spray-applied gas vapor membrane attaching to the piles themselves and conforming to the haunch. The top right image shows other trade installations commencing on top of completed membrane, which has been covered with a protection layer. The large image shows the completed gas vapor membrane (foreground) being covered with the UltraShield™ P-150 protection material (blue).

CHALLENGE:

The site for the school development underwent a series of environmental remediation procedures and concern over vapor migration of VOCs and BTEXs in the soil needed to be addressed.

SOLUTION:

Among other remedial activities, a comprehensive spray applied gas vapor barrier with sub-slab depressurization system (SSDS) was designed and recently installed on the site to protect the school and its occupants from vapor intrusion. The LIQUID BOOT® gas vapor barrier was successfully installed in approximately 16 weeks. The barrier met and exceeded strict chemical resistance and diffusion testing requirements, and was designed to conform to stringent quality control testing procedures, including smoke testing; ensuring a vapor tight seal beneath the building. 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 membrane design.

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RESULT:

The use of a gas vapor barrier ensured the school was protected from any potential sub slab vapor intrusion issues. Additionally, the system was fundamental to the remediation design and integral in ensuring the site met the environmental health and safety requirements.

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