

Prominent developer chooses CETCO gas vapor barrier for methane protection

A prominent residential developer had selected an idle Brownfield for the site of a large multi-family residential development.



PROJECT DETAILS

Sienna Place Homes

Design Engineer: Tetra Tech, Inc.
and Pennoni Associates

Certified Installer:
InterGeo Solutions, LLC

LOCATION

Philadelphia, PA

PRODUCTS USED

LIQUID BOOT® Gas Vapor Mitigation
System

Images left to right: BASEFABRIC™ T-60 provides a uniform substrate to spray the LIQUID BOOT® gas vapor membrane to (left). The spray-application fully adheres to irregular surfaces, allowing for ease of installation, labor savings, and a gas-tight and seamless barrier (middle). The LIQUID BOOT® gas vapor membrane being installed by a certified applicator on each of the building footprints (right).

CHALLENGE:

To mitigate potential methane vapor intrusion concerns, Pennoni Associates and the general contractor selected the LIQUID BOOT® gas vapor barrier system as a part of their overall remedial design and to protect 190,000 square feet of indoor space.

SOLUTION:

Originally specified as with a 40-mil HDPE geomembrane, InterGeo Solutions was able to provide a more viable alternative with CETCO's LIQUID BOOT® system, installing the membrane quicker and for less money than a traditional geomembrane. InterGeo Solutions installed the LIQUID BOOT® system, which included BaseFabric™ T-60 base layer

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fabric, the LIQUID BOOT® spray-applied barrier, and UltraShield™ G-1000 protection course material, all to the underslab of each pad on the housing project. After installation, InterGeo Solutions performed rigorous QA/QC procedures, including mil thickness testing and the CETCO-pioneered Smoke Test™, ensuring the membrane was entirely vapor tight. Using a CETCO-trained and certified LIQUID BOOT® applicator, CETCO was able to provide a complete site solution, solving any potential gas vapor intrusion issues.

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.

North America: 847.851.1800 | 800.527.9948 | www.cetco.com

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