

Prominent developer chooses CETCO vapor barrier for methane protection

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



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

PROJECT DETAILS

Sienna Place Homes

Design Engineer: Tetra Tech, Inc.
and Pennoni Associates

Certified Installer: InterGeo Solutions,
LLC

LOCATION

Philadelphia, Pennsylvania, USA

PRODUCTS USED

LIQUID BOOT® Spray-Applied Vapor
Barrier

CHALLENGE:

To mitigate potential methane vapor intrusion concerns, Pennoni Associates and the general contractor selected the LIQUID BOOT® vapor barrier 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® vapor barrier, installing the membrane quicker and for less money than a traditional geomembrane. InterGeo Solutions installed LIQUID BOOT® vapor barrier, which also included BaseFabric™ T-60 base layer fabric and UltraShield™ G-1000 protection course material, all to the under-slab 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® vapor barrier 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.

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