



## North Carolina Residential Community Protected by Nitra-Seal

### Rapid Installation Meets Strict Construction Pour Schedule Despite Weather Challenges

#### Site Details

##### Location

North Carolina

##### Square Feet

134,350

##### Project Highlights

Challenging pour schedules

##### Contaminants of Concern

TCE, benzene, metals

##### Building Use

Residential

#### Project Summary

A multi-family residential development in North Carolina was recently constructed near a former industrial area where contaminants such as chlorinated solvents (TCE), benzene, and metals were detected in the soil. To mitigate the risk due to potential vapor intrusion (VI), a contaminant vapor barrier was required as part of the redevelopment project. A Nitra-Seal Nitrile Advanced Contaminant Vapor Barrier system was selected for the project due to its high level of chemical protection, installation speed, and cost-effectiveness.

#### Application

The large multifamily development consisted of numerous buildings of various sizes and elevations, along with many utility penetrations requiring sealing, making for a complex installation process demanding attention to detail. Additional complications arose during the project when frequent heavy rains further challenged an already tight concrete pour schedule. Despite the project's complexity and rain delays, the installation process, led by a highly experienced Land Science Certified Applicator, successfully navigated the challenging schedule.

#### Results

A total of 134,350 square feet of Nitra-Seal was quickly installed to maintain the construction schedule, saving time and money for this complex project. Using an experienced Land Science-certified applicator was critical for efficient installation and quality-control testing, preventing unnecessary project delays. With the Nitra-Seal vapor barrier in place, future residents of the new community will receive a high level of protection from potential VI concerns, enhanced by remote monitoring systems installed to enable future sampling and ensure ongoing safety and compliance with regulatory requirements.