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James Fraley,
President,
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Project Size: 200,000F
Installer: Elite Radon
General Contractor: Landmark Construction
Systems: Geo-Seal 100
Application: Vapor Intrusion Mitigation



Geo-Seal 100 Installed as Vapor Barrier and Preemptive Waterproofing System

A new Knoxville-area residential structure was completed in August, 2025. It features studio and up to five bedroom apartments, as well as a parking garage and amenities designed to appeal to young professionals. The building is strategically located, offering access to big city attractions and transportation options.

Long before construction was slated to begin, soil testing indicated the presence of chlorinated solvents on the land. A vapor intrusion barrier was subsequently required, and Elite Radon collaborated with EPRO to determine the ideal product.

“We always appreciate the opportunity to work with the EPRO team,” says James Fraley, President, Elite Radon. “With open communication, and true collaboration, we work together and solve problems on site as they arise. This project was no different.”

An impressive 200,000 square feet of Geo-Seal 100 was installed to protect the structure and its future occupants.

Site view with many pipe penetrations



Elevator pit installation.



Geo-Seal 100 is the most chemically resistant vapor intrusion barrier on the market today according to third party independent testing. Designed to be thick and robust, Geo-Seal 100 can withstand the rigors of modern-day construction by providing high tensile strength, puncture resistance and robust seals around penetrations, and terminations. Thoroughly tested and proven highly effective against VOCs — such as chlorinated solvents, petroleum hydrocarbons and methane gas — Geo-Seal 100 earns full approval with multiple federal and state regulatory agencies.

“The Geo-Seal line of products are exceptional to work with. Installation is often fast and straightforward,” says Fraley. “On this site, we also installed product as preemptive waterproofing at the elevator pits, which speaks to Geo-Seal 100’s versatility.”