

EVOH vapor mitigation system used to protect against residual VOC contamination

VOC contamination was detected in the sub slab for a project situated on a site that was once a former film processing facility.



PROJECT DETAILS

Former Film Processing Facility
Engineer: NSN Engineering

General Contractor: C.W. Driver

Certified Installer: Advanced
Construction Technologies

LOCATION

Hollywood, California, USA

PRODUCTS USED

LIQUID BOOT® PLUS spray-applied
vapor barrier

Images left to right: Elevator pit lined with VI-20™ geomembrane, which contains a high-performance material called EVOH. EVOH is highly resistant to VOCs and, when used in conjunction with LIQUID BOOT® vapor barrier, provides a robust vapor mitigation system with superior chemical resistance protection. LIQUID BOOT® spray-application ensures that all penetrations are seamlessly and effectively sealed.

CHALLENGE:

Owner of the facility demolished the existing slab and interior to create a high end office building spanning two standing structures. Sub slab VOC contamination created a potential for sub slab vapor intrusion. The high profile client need to create a safe and healthy work environment and requested that the highest end system available be used for the health and safety of the employees working in the new structure.

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SOLUTION:

A belt and suspenders vapor mitigation system using 4" trenched perforated pipe in a gravel bed, CETCO's high performance LIQUID BOOT® PLUS vapor barrier, and monitors was designed by NSN Engineering. NSN performed constant onsite inspection to ensure all QAQC procedures were in place during the system installation. One of CETCO's two Preferred Applicators, Advanced Construction Technologies worked diligently to install all facets of the system to the designed specifications and QAQC procedures.

RESULT:

Advanced Construction Technologies, along with the onsite inspection services of NSN Engineering, successfully installed the vapor mitigation system, incorporating CETCO's LIQUID BOOT® PLUS vapor barrier, allowing the owner of a world renowned film studio to build a state of the art office complex while mitigating the threat of sub slab vapor intrusion.