



CASE STUDY VOID FILL

Warehouse Slab Voids Filled in Two Days

A high-traffic medical supply warehouse in Memphis had a long slab crack running through the facility. The concern was not cosmetic: voids below the slab created risk for forklift traffic, heavy storage loads, and future floor movement.

Initial Assessment

GPR scans showed voided areas roughly 10-20 inches below the slab. Removing and replacing concrete would have disrupted warehouse traffic, added downtime, and exposed the facility to a longer repair window.

Proposed Solution

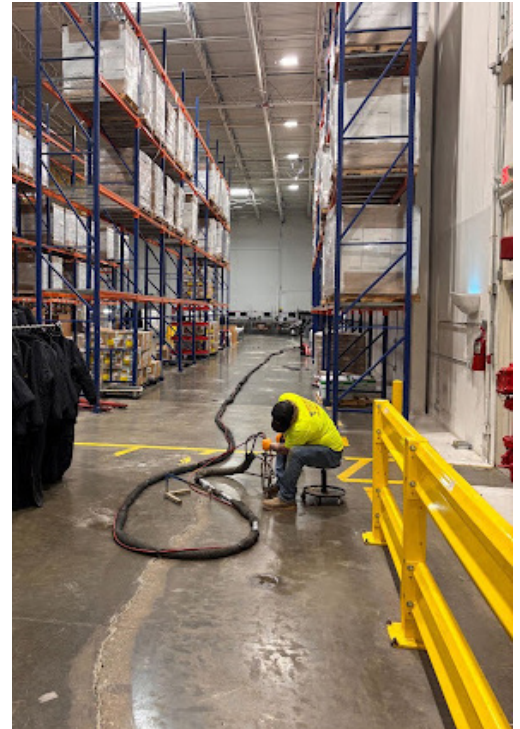
Crews used AP Lift 475 to fill voids beneath the warehouse slab. This high-density, two-component polyurethane forms when its A-side and B-side chemicals react, producing a watertight foam that expands 15x by volume, depending on conditions. Geotechnical contractors use this type of structural polyurethane nationwide to lift concrete, support slabs, fill voids, and stabilize infrastructure, making it well suited to a heavy forklift-traffic environment like this warehouse.

Procedures

1. Located the crack and suspected void zones
2. Staggered injection points along both sides
3. Covered approximately 450 linear feet
4. Drilled injection holes through the slab
5. Injected polyurethane to fill voids
6. Monitored slab response during injection

Results

- Completed the project in two days
- Minimized disruption to warehouse operations
- Filled voids without slab replacement
- Improved support beneath forklift traffic areas



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