

Alchatek

CASE STUDY
VOID FILL & STABILIZATION

PAPER MANUFACTURING PLANT

Filling Dangerous Voids *at a Paper Manufacturing Plant*

A critical safety issue arose at a large paper manufacturing plant when large voids were discovered beneath concrete slabs supporting heavy water pumps.

VOID DEPTH
18 *inches*

PRODUCT
AP Lift 475

01 What made this job *difficult.*

PAPER MANUFACTURING PLANT

Large voids up to 18 inches deep were discovered beneath concrete slabs supporting heavy water pumps. This hazardous condition put both employees and equipment at risk. A geotech specialist was called in to fill the voids and secure the slabs.

THE CONSTRAINT
18 *inches*
VOID DEPTH

KEY CONDITION

Voids up to 18 inches deep beneath concrete slabs supporting heavy water pumps.

AT A GLANCE

100 p.s.i. COMPRESSIVE STRENGTH ASTM D-1621	100 p.s.i. TENSILE STRENGTH ASTM D-638	14-16 times EXPANSION (UNCONFINED)	4.5 to 5.0 lb/ft3 DENSITY ASTM D-1622

Eliminating the dangerous voids created a safer work environment.

02 What was specified, *and how it went in.*

AP LIFT 475

The technicians chose AP Lift 475 for the job. This material offers strong load-bearing capacity and cures quickly, minimizing plant downtime.

THE MATERIAL

AP Lift 475

AP LIFT 475

Strong load-bearing capacity and fast curing, allowing a swift return to full operation.

THE METHOD

01
Drill
3/4-inch holes drilled roughly every 3 feet across the affected area.

02
Inject
Repair material injected into each hole.

03
Flow
Substance flowed beneath the slab from one drilled hole to the next, providing comprehensive coverage.

03 What the result was, *and what confirmed it.*

COMPLETION TIME

The entire repair took only one day to complete. After the work, the slabs were securely stabilized, and the pump equipment and workers were safe. The paper manufacturing company expressed satisfaction with the outcome.

COMPLETION TIME

1 *day*

Due to the quick turnaround time, minimal disruption occurred. Eliminating the dangerous voids created a safer work environment.

START THE CONVERSATION

Send us the job.
We will send back an approach.

Send us the soil report or the failure photos and Technical Services will return a written approach within two business days.

TECH SUPPORT

404 · 618 · 0438

WWW.ALCHATEK.COM

Alchatek

Alchatek manufactures polyurethane resins, chemical grouts, and injection equipment for infrastructure repair: leak sealing, soil stabilization, concrete lifting, and seawall repair. Headquarters in Tucker, Georgia, with a bonded warehouse in Reno, Nevada.

Information in this document is believed accurate at the date of publication. Product performance depends on site conditions and application; consult the current Technical Data Sheet, which is the controlling document.

ALC-CS-XX-029
DRAFT V0.1 · SEPT 2026