



CASE STUDY
SLAB LIFT

Sinking Slab Under Tracks Causes Safety Hazard for Chinese Railway

A general contractor working for a school district in Buffalo, New York was asked to lift and level around 550 feet of sidewalk slabs at a local high school. The general contractor called in slab lifting specialists to get the job done. Since sunken slabs often result in trip hazards, getting the job done quickly and permanently was a top priority.

Powerful Polymers

The slab lifting crew showed up on the scene armed with AP Lift 435 high-strength polyurethane and several Jack Attack devices.



Physical Properties - Cured

AP LIFT 435			
Compressive Strength	(ASTM D-1621)	64 p.s.i. or 9,215 p.s.f.	4,412 millibar
Tensile Strength	(ASTM D-638)	94 p.s.i.	6,481 millibar
Expansion	(Unconfined)	20-22 times	-
Density	(ASTM-D 1622)	3.25 to 3.75 lb/ft3	52.06 to 60.07 kg/m3

Properties will vary depending on application conditions.

Painless Procedure

They leveled all 550 feet of sunken sidewalk slabs with total precision. They performed lifts ranging from 0.5 to 6 inches, depending on the slab. In some cases, they lifted with polyurethane only and in others, they raised the slab with the jacking devices before injecting the polyurethane underneath.

Rapid Result

The entire job was completed in only two days. The general contractor and school administrators were both amazed at the efficiency and surgical precision of the polyurethane slab lifting method.

About Alchatek

Alchatek is an international leader in the manufacture and supply of chemical grouts and construction products for Geotechnical, Leak Seal, and Seawall Repair applications. Providing solutions from its headquarters in Tucker, Georgia and its manufacturing facility in Reno, Nevada, Alchatek specializes in advanced construction technologies for sealing leaks, stabilizing soils, lifting concrete, and protecting infrastructure and seawall structures. To best serve its customers, Alchatek is organized onto three divisions:

The Leak Seal Division combines a full system offering of polymer chemical grouts and equipment with perhaps the most experienced technical team in the industry. It specializes in preventing water ingress through concrete infrastructure including parking garages, culverts, basements and foundations, and sewer manholes.

The Geotechnical Division offers a complete line of single component products for soil stabilization as well as two component polyurethane foams for concrete lifting, void filling, and stabilization of infrastructure. This includes lifting sunken structures such as warehouse floors, back into place.

Seawall Repair Network® is the only national network of certified contractors in the repair, preservation, and protection of Seawalls waterfront barriers. Its proprietary methods and materials are environmentally friendly and safe for use in all marine environments and provide a non-destructive solution for seawall repair at 80% less than the cost of replacement.

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