

**POWERFUL POLYMERS  
PAINLESS PROCEDURES  
RAPID RESULTS**

### Contractor Successfully Completes Unique & Challenging Driveway Lift

A homeowner called a slab lift contractor in Tennessee with an interesting driveway problem. There was an 8-inch drop at the point where the driveway met the edge of the garage floor. That was enough to prevent the resident from getting their car into the garage at all. The homebuilders did not extend a nearby gutter downspout far enough away from the driveway. Rainwater caused erosion under the slabs, causing them to sink over time. What made this case unique was the fact that the final slab (closest to the garage) in this 20-foot-wide driveway was only two feet long. Slabs with such narrow dimensions are notoriously difficult to lift evenly.

### POWERFUL POLYMER

The slab lift crew used **AP Lift 430**, a two-component, high strength, high density, hydro-insensitive structural polyurethane foam. They chose AP Lift 430 because it's one of the most consistently reliable lifting foams in the industry. This high-density foam is extremely strong, providing concrete slabs and structures with reliable and lasting support.



### Physical Properties - Cured

AP LIFT 430			
Compressive Strength	(ASTM D-1621)	50 p.s.i. or 7,200 p.s.f.	3,447 millibar
Tensile Strength	(ASTM D-638)	88 p.s.i.	6,067 millibar
Expansion	(Unconfined)	22-26 times	-
Density	(ASTM-D 1622)	2.75 to 3.25 lb/ft3	44.05 to 52.06 kg/m3

Properties will vary depending on application conditions.

## **PAINLESS PROCEDURE**

The crew drilled their first injection hole about 3 feet from one edge of the slab, right in the middle of the 2-foot length (about 1 foot in from both edges). They lifted this end of the slab for about 2 inches and then stopped. Lifting any further at this point would likely have cracked the slab. Next, they drilled another hole about 6 feet in from the edge and repeated the process. When they reached the end of the 20 feet, they started again – redrilling that first hole and lifting another 2 inches. With this gradual injection process, they carefully raised the slab 8 inches and leveled it off with the garage floor. They then moved on to lift the other, conventionally sized slabs in the rest of the driveway.

## **RAPID RESULT**

This challenging slab lift job was completed in just 3 hours. Fifteen minutes after the injections were completed, the homeowner was able to drive their car across the newly leveled driveway and into the garage.

## **About Alchemy-Spetec**

### **The Leak Seal Division**

The Alchemy-Spetec Leak Seal Product Line combines a full-system offering of polymer chemical grouts and equipment with perhaps the most experienced technical team in the industry. For any concrete leak seal application, lean on the Alchemy-Spetec team for phone, field, or engineering support. Our growing network of Regional Managers, Independent Representation, and Nationwide Distribution offers industry professionals many levels of opportunity worth discussing with our team. Consultants at Alchemy-Spetec pride themselves on rapid, powerful, and painless scheduling of field and technical support. We invite you to inquire about our bi-annual factory training held at the Tucker, GA-based manufacturing facility where they can learn from the 20+ year average industry experience of our Regional Management and Technical Team.

### **The Geotech Division**

The Alchemy-Spetec Geotech Product Line offers industry-leading quality, full chemical grout lifting rig training and support, and unmatched contractor support in the field and with sales and marketing. Contact us today to learn about the tangible benefits of joining the Alchemy-Spetec network of geotech contractors. The Alchemy-Spetec MixMaster Pro Gun is a maintenance and production cost-saver for any lifting contractor, while the flagship lifting foams have helped many contractors reduce volume usage while eliminating call-backs. From the Polybadger machine that fits into a pickup truck, to custom boxtruck and trailer rig buildouts, Alchemy-Spetec is widely considered the premier geotechnical chemical grout & equipment supplier. With the additions of ground penetrating radar and penetrometer equipment and support, Alchemy-Spetec is truly on the cutting-edge of the chemical grouting industry.