

ALCHEMY | Spetec

Statement of Qualifications



www.Alchemy-Spetec.com

Foremost is an authorized user of Alchemy-Spetec products.



FOREMOST
FOUNDATIONS & CONSTRUCTION



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POWERFUL POLYMERS
PAINLESS PROCEDURES
RAPID RESULTS

Company Profiles



Alchemy-Spetec develops formulations and manufactures polyurethane, acrylate, and epoxy resins. Our product line includes resins for stabilizing soil, sealing leaks in structures, and lifting settled concrete slabs/structures back to their original elevations. These products include two-component structural foams, one-component catalyzed resins, one-component polyurethane pre-polymers, and acrylates.

These products are used for:

- Stabilizing Soil
- Filling Voids
- Sealing Leaks in Structures
- Seawall Repair
- Curtain Grouting
- Lifting Settled Concrete Slabs and Structures
- Deep Soil Lifting
- Structural Crack Repair
- Concrete Spall Repair
- Preventative Waterstop

Our primary focus is helping engineers and governmental agencies select the appropriate materials for their specific projects and helping ensure that the contractors install the materials in the correct manner. Our technical service people are often on-site to assist contractors in finding the best installation techniques.

We also manufacture specialized equipment for injection and distribute equipment specific to our applications. The three-pronged approach of manufacturing polymer resins, providing appropriate equipment, and providing on-site technical service sets Alchemy-Spetec apart from all of our competition.

Many of our products have obtained certification that they meet ANSI / NSF Standard 61 standards for contact with potable water. This ensures that our products can be used in drinking water applications and that they are safe for the environment.

With over 30 years' experience, President and CEO Stephen Barton is considered one of the most experienced people in the industry. Stephen has travelled the world managing and providing technical assistance for a myriad of projects. Please see the attached "Noteworthy Projects" for a small sampling of his direct experience.



Seawall Repair Network® is the only national, all-inclusive seawall repair and preservation network. We are a division of Alchemy-Spetec, the industry leader in seawall, leak seal, and ground engineering solutions.

Preferred marine contractors are carefully selected for their experience, integrity, reputation, and customer service record. Each contractor has been thoroughly trained in Seawall Repair Network® product and solution application methods.



Protecting Drinking Water from Potential Flood Contamination

Planners at Washington D.C.'s water utility, D.C. Water, decided to take proactive measures against potential flooding of their facility. Located right next to the Potomac, their facility could've been at risk in the event of an out-of-the-ordinary natural disaster. Determining that the main risk to the water supply in such a case would be permeation through sub-surface soil, they began installing a metal sheet pile wall deep into the substrate between the riverbank and the facility. However, in some spots they were not able to drive a sheet pile panel into the ground because of underground utility lines or rocky substrate. The planners called in a Seawall Repair Network® contractor to create sub-surface grout walls in those spots to fill in the gaps.

Repair Materials

The Seawall Repair Network® crew “constructed” these sections of the underground wall by injecting SW-RP1 (a.k.a. AP Fill 720). This repair material permeates the soil, fills small voids in the soil, and cuts off water flow.

Procedures

Seawall Repair Network® professionals used a Geoprobe to drive injection pipes into the ground (up to 33 feet in some locations). They then injected one gallon per foot using upward staging. The next injection point was 18 inches away from the first one. This process was repeated until a grout wall formed, filling the gap between the two adjacent underground sheet piles. For a large-scale job like this, they used a PolyShark single component grout pump manufactured by Alchemy-Spetec.

Results

With solid, impermeable grout walls filling in the gaps, a sub-surface barrier between the riverbank and the drinking water facility was now in place. The planners at D.C. Water were very satisfied with this solution.



Section: Geotech

SLAB LIFTING



SOIL STABILIZATION



DEEP LIFT



SEAWALL REPAIR





The Problem

As tidal flows rise and fall, water pushes its way in through cracks, joints, and defects in seawalls. The water pushes in on incoming tides and flows out on outgoing tides. As the water flows out, it carries sand and soil with it which causes undermining of the structure, voids to form, and deteriorates the structural integrity of the seawall. This cycle is exacerbated during periods of heavy rain which continue the outflow of soil.



The Solutions

AP Fill 700 and AP Fill 720 are semi-rigid hydrophobic polyurethane foams that react with water or moisture in the soil and expand to fill voids while permeating sandy soil to form a solid, strong, watertight mass. These polymers are used extensively in seawall applications to seal cracks, voids and defects as well as for filling voids and stabilizing the soil.

How Our Seawall Repair Foams Help

These products can be injected along the wall where the settling is occurring and generate multiple benefits. They will seal any leaks along the wall, fill the voids that have occurred, and mix with the soil to form a solid, impermeable mass. Combined with proper drainage, this method can extend the life of your seawall.



The Problem

A structure is only as good as the foundation it's built on. And regardless of how well-constructed a structure may be, most foundations settle. That's just a fact of life. Shifting soil, compaction, and many other environmental conditions tend to cause settling. Sometimes structures settle gradually, and in other cases they're swallowed up in minutes. These situations create problems for property owners, and opportunities for the contractors who know how to fix them.



The Solution

Alchemy-Spetec manufactures the **AP Fill 420**, **AP Lift 430**, **AP Lift 440** and **AP Lift 475** polyurethane lifting foams for slab jacking and structure lifting. Among the most dependable products for jacking and leveling concrete slabs, these two-component, high-strength, hydro-insensitive structural foams serve as an extremely effective solution for contractors.

How Our Slab Lift Polymers Help

Lifts Slab Back to Level Height

AP Lift foam allows contractors to raise slabs to within 1/10" of the desired height.

Reinforcing Eroded Areas

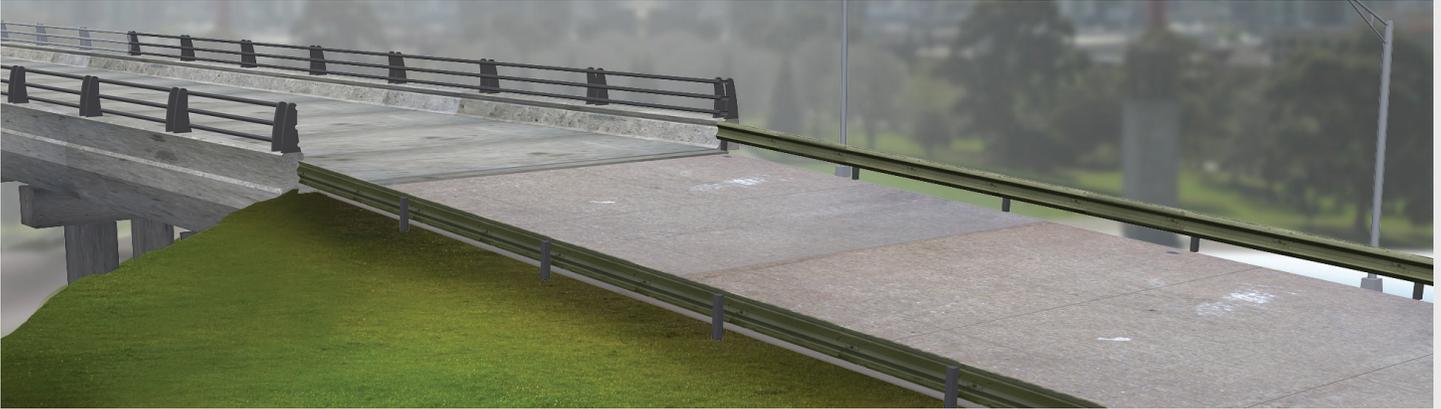
Polymer foam displaces water and cures into a solid mass reversing the erosion process.

Compacting Soil

AP Lift foam injection compacts loose soil to create a strong substrate.

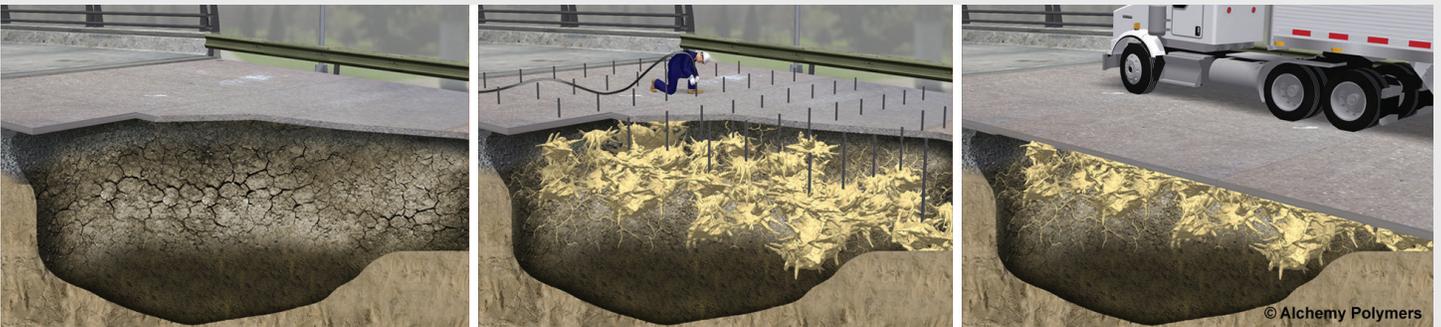
Filling Voids Caused by Decay

Polymer foam fills voids before it cures, making it a great solution for instances of biological decay.



The Problem

Unstable soil can be defined as soil that will not stay in place on its own, and therefore requires extra support. It should be noted that unstable soil can threaten the stability, security, and safety of infrastructure and can damage, degrade, and even destroy a number of structures, such as buildings, bridges, and roads. There are a variety of factors that can cause unstable soil including erosion, poor compaction, freeze/thaw cycles and decomposition.



The Solution

Voids can be filled, seawalls remediated, soil consolidated, and water migration halted by permeating the soil with AP Soil 600, an ultra-low viscosity polyurethane resin. Once the bearing capacity of the soil has been increased with this process, then the structure can be lifted if necessary. Single part products such as AP Fill 700 and AP Fill 720 provide great options for stabilization work in hydrostatic conditions or when injecting into the water table.

How Our Soil Stabilization Polymers Help

Reinforcing Eroded Areas

Polymer foam displaces water and cures into a solid mass reversing the erosion process.

Permeating Soil

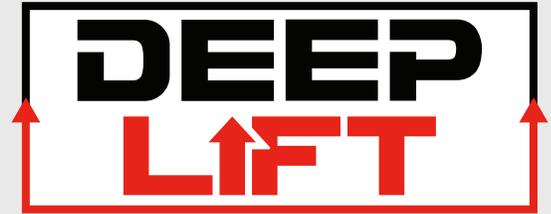
AP Soil 600, AP Fill 700, and AP Fill 720 foam permeates loose soil to create a strong substrate.

Filling Voids Caused by Decay

Polymer foam fills voids before it cures, making it a great solution for instances of biological decay.

The Problem

Poor compaction, water erosion, broken pipes, and organic material in the soil can all lead to settling of a foundation or a roadway. Traditional slab lifting can bring concrete and structures back into place but it doesn't necessarily address the underlying issue or guarantee a long term fix. Other methods of addressing deep soil issues require heavy equipment, extended down time, and collateral property damage. These situations create problems for property owners as well as opportunities for the elite contractors that know how to fix them.



The Solution

Introducing the Deep Lift™ process! Alchemy-Spetec offers high quality structural lifting foams, including **AP Deep Lift 420** (designed specifically for this application). Deep Lift™ equipment and training are also available to address deep soil issues. Now you can achieve soil densification and lifting on large projects with the smallest footprint and the least amount of heavy equipment required.

The Deep Lift™ process is powerful, painless, and rapid. Deep Lift™ gets to the root of the problems in the soil, it brings the structure back to level, and accomplishes this with minimal imposition or downtime to the property owner.

How Deep Lift™ with Structural Polymers Helps

Lifting Pavements and Structures Back to Level Height

Alchemy-Spetec Deep Lift allows contractors to offer a 3 dimensional repair to the soil while bringing the structure back to level.

Compacting Soil

The Deep Lift™ process penetrates multiple layers in the soil to create levels of high density polymer that permeates sand, consolidates loose soil, and compacts clay.

Filling Voids Caused by Decay

The AP Lift series polymers combined with the Deep Lift™ process displaces water filled voids in the soil and encapsulates decaying material.

Section: Leak Seal

CRACK INJECTION



CURTAIN GROUTING



WATERSTOP



SEAWALL REPAIR

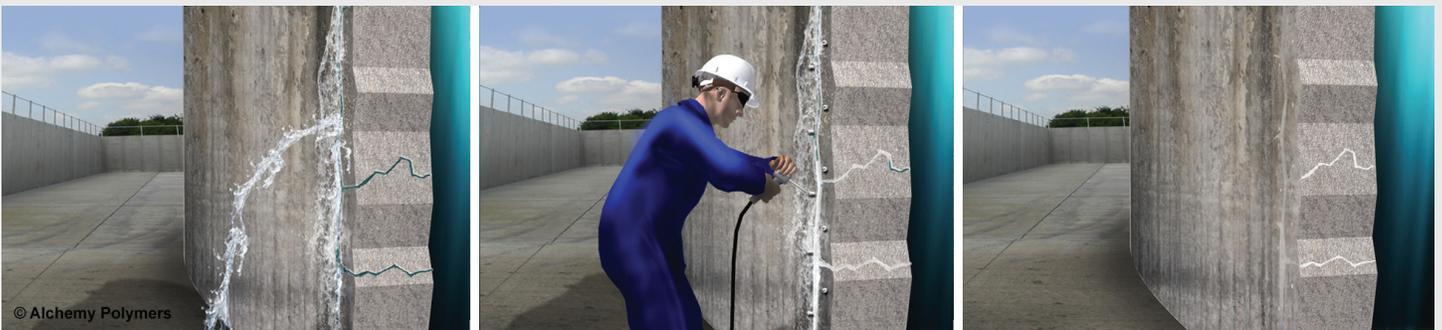


NOTE: Seawall Repair is on Page 7



The Problem

Concrete is one of the most common building materials in the world. Even brand new construction can require leak seal follow up work. Older concrete structures are even more susceptible. Leaks through concrete are generally going to be through cracks, joints, and honeycomb (areas in poured concrete of mainly coarse aggregate with voids in between). Depending on water volume and pressure, and the size of the joint or crack, you are going to encounter weeping leaks, steady leaks, and gushing leaks. The leak seal solutions we offer also work on metal, wood, brick, block and other non-concrete structures.



The Solutions

Spetec PUR F400: Single component, low viscosity, closed cell, flexible hydrophilic polyurethane injection resin.

Spetec PUR GT500: Single component, low viscosity, closed cell, flexible hydrophilic polyurethane injection resin.

Spetec PUR GT350: MDI based, hydrophilic, single component, flexible polyurethane injection resin.

Spetec PUR GT380: Single component, low viscosity, flexible hydrophilic polyurethane gel injection resin.

Spetec AG 200: Water-swelling hydrogel based on acrylate that cures to an elastic product.

How Our Injection Grouts Help

Water Activation

Leaking concrete structures can be permanently repaired with concrete crack injection by using a water activated flexible foam.

Pressure Injection

Pressure injection of these liquid resins forces the material into leaking cracks, joints, and other defects.

Flexible, Watertight Seal

After the crack injection is complete, the resins rapidly reacts with water to form a flexible, watertight seal.

The Problem

Curtain wall grouting is often required when cracks cannot be identified, when the walls are made of material that does not respond well to crack injection (such as masonry, stone and CMU), and when previous leak seal methods have failed. In the photos above, you'll see curtain wall injection jobs that became necessary after less reliable methods were attempted.

The Solution

Curtain wall grouting is the process of injecting water reactive resin behind the leaking wall in a grid pattern. This procedure is best done with either **Spetec PUR H100**, **Spetec PUR H200**, **Spetec PUR HighFoamer**, or **Spetec AG200**.

These expansive one-component polyurethane resins can be injected through the wall to cut off large flow and high pressure water leaks. The resins react with the water on the other side to form a long lasting, durable seal.

Spetec PUR H200 has a high rate of expansion and a little flexibility.
Spetec PUR H100 has a lower rate of expansion but a bit more flexibility.
Spetec PUR HighFoamer is very similar to **H100** in cell structure, but offers much more expansion.
Spetec AG 200 has a very low rate of expansion (only a slight swelling) but a lot of flexibility.

How Curtain Grouting Resins Help

Water Activation

Leaking concrete structures can be permanently repaired with concrete crack injection by using a water activated flexible foam.

Pressure Injection

Pressure injection of these liquid polyurethane resins forces the material into leaking cracks, joints, and other defects.

Flexible, Watertight Seal

After the polyurethane crack injection is complete, the polyurethane resin rapidly reacts with water to form a flexible, watertight seal.



WATERSTOP (Preventative)

Section: Waterproofing

The Problem

Newly constructed floor/wall joints with no waterstop lining can be vulnerable to water infiltration. Neglect to line the joints, and water will seep into the structure and out onto the floor. Needless to say, water on the floor can be an inconvenience, it can be a safety hazard and it can damage property. In addition, floor/wall joint leaks can cause the concrete to decay and spall over the long run.

The Solutions

Spetec ITS Kit

The Spetec ITS Kit is a complete injection tubing system for sealing of construction joints in concrete. It can also be used to seal cold joints, expansion joints, pipe penetrations, and tunnel segment joints. In addition, this kit can be used as a primary waterstop system.

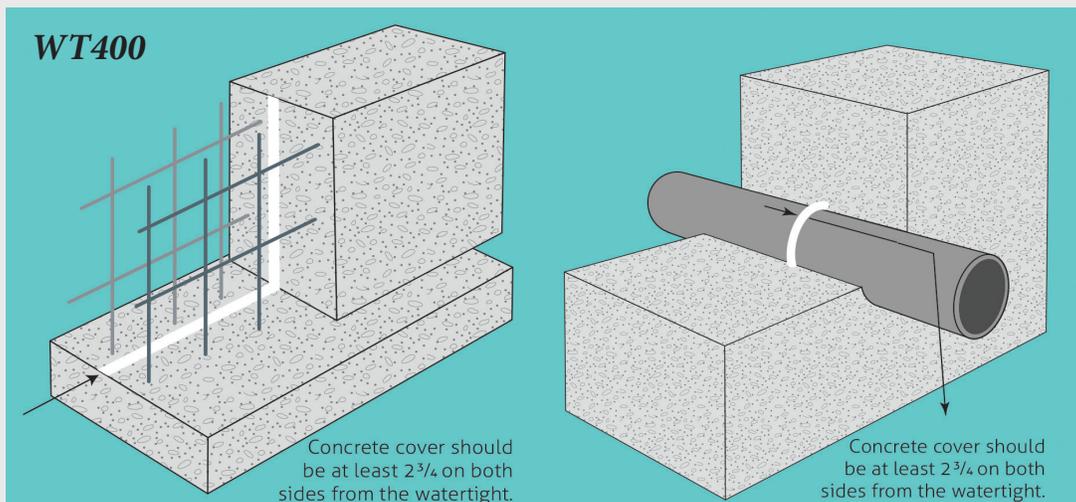
It includes four parts:
100 lf of injection tube.
20 lf of 3/8" reinforced PVC tube.
1/4" clips (100). 12 3/8" elbow hose barbs.

Spetec SST500

This is a black hydrophilic synthetic waterproofing strip. Spetec SST500 swells up to 500% of its original size upon contact with water and is used to seal pipe penetrations as well as wall/floor joints.

Spetec WT400 (Special Order Only)

This is a caulk designed to swell and/or expand in the presence of water. It is safe for marine environments and can be applied under water. Spetec WT400 is used to seal pipe penetrations, wall joints, and sheet pile joints.



How Our Waterstop Solutions Help

Spetec ITS Kit

Monolithic waterstop seal, effective in applications with honeycomb concrete, will not crush under weight.

Spetec SST500

Ecologically friendly, good impact resistance, permanently active system "wet/dry cycles", swells more than 500% when in contact with water.

Spetec WT400 (Special Order Only)

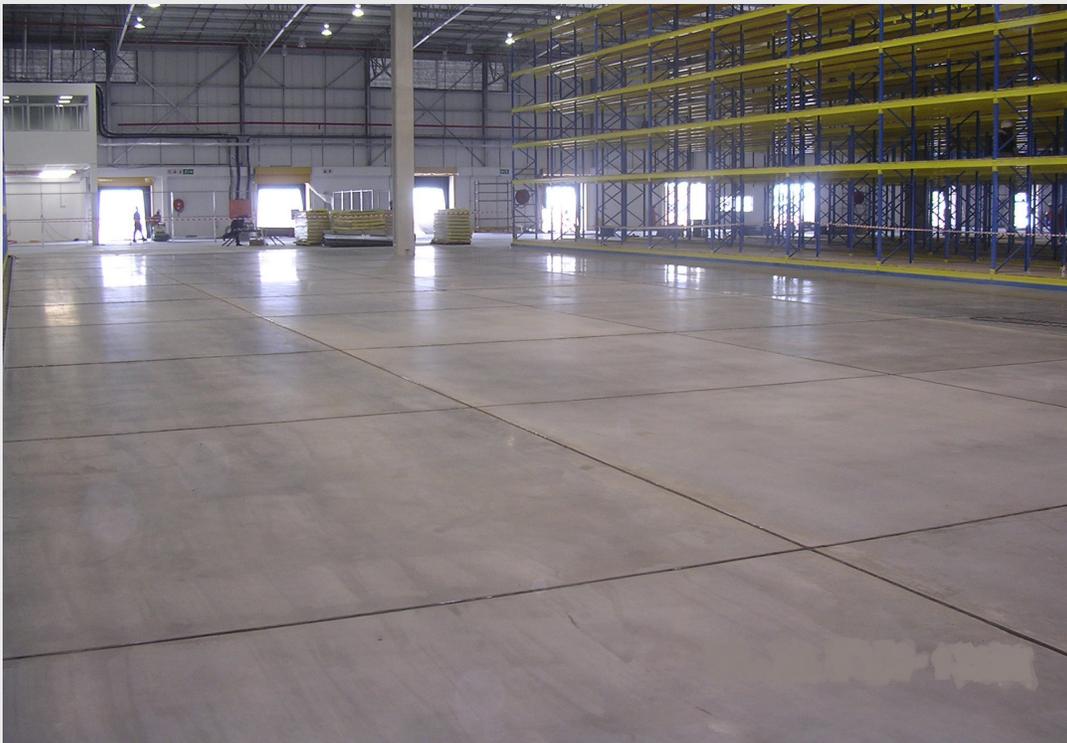
High elongation, no volatile solvents, seals rough concrete, high expansion, non-sag paste, great adhesion.

Section: Structural Repair

EPOXY INJECTION



JOINT PROTECTION & JOINT REPAIR



EPOXY INJECTION

Section: Structural Repair

The Problem

Cracks and micro cracks in dry or wet concrete can undermine structural integrity.

The Solutions

Epicol INJ is a low-viscosity epoxy resin for structural bonding of cracks and micro cracks in dry or wet concrete. Can be used as glue for bonding and anchoring.

AP NS950 Epoxy is a putty with a simple mixing ratio suitable for filling and moulding. It sticks to wood, stone, concrete and metal.

How Our Epoxies Help

Epicol INJ: Low viscosity. Works in both wet and dry applications. Deep penetration into micro cracks. Solvent-free. Excellent adhesion to concrete.

AP NS950 Epoxy: High adhesive power. Simple mixing ration with color control. Hard and impermeable. Can be worked after curing.



JOINT PROTECTION

The Problem

Potential spalling and cracking of joint edges from excessive forklift traffic.

The Solution

AP Joint Fill 800 is a 2-part polyurea flexible joint filler with fast reaction times allowing for shave times in as little as 5 minutes. The fast reaction allows for minimal down time and facilities to be in operation quickly.

How Our Joint Filler Helps

AP Joint Fill 800: 100% solids, two part system, fast low temperature cure with flexibility to tolerate joint movement.



JOINT REPAIR

The Problem

Spalling and cracking of joint edges from excessive forklift traffic.

The Solution

AP Floor Repair 850 is VOC free, two component polyurethane system. This high quality thermoset is designed for fast repair of construction materials (spalls, cracks, delaminations, etc.). Very low viscosity allows use of high loading of filler like sand, pea gravel and others.

How Our Joint Repair Product Helps

AP Floor Repair 850: 100% solids, two part system, suitable for DOT work, high compressive strengths with aggregate, 1/1 mix ratio, very low viscosity, low temperature cure.

EQUIPMENT

Slab Lifting Pumps

Hydraulic proportioners customized for lifting. PMC plural component proportioners are used to inject AP two-component structural polyurethane foams for Slab Lifting and Soil Stabilization. Rugged and dependable, these pumps utilize relays and circuit breakers instead of circuit boards, vastly increasing reliability and preventing maintenance problems.

MixMaster Pro

Two-component resin injection gun manufactured specifically for lifting concrete slabs, designed to handle back-pressure. As the essential piece of foam jacking equipment for Alchemy-Spetec's expanding polyurethane foams, the resin injection gun provides highly-efficient concrete leveling.

Custom Trailer Rigs

When it comes to optimizing your chemical grouting equipment, Alchemy-Spetec offers custom rigs for medium to large scale slab lifting, void filling and soil stabilization jobs. FINANCING AVAILABLE!

Slab Lifting Accessories

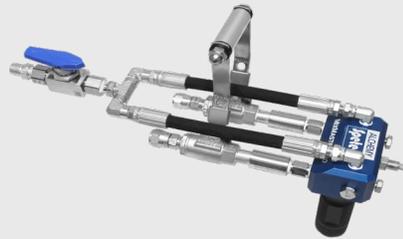
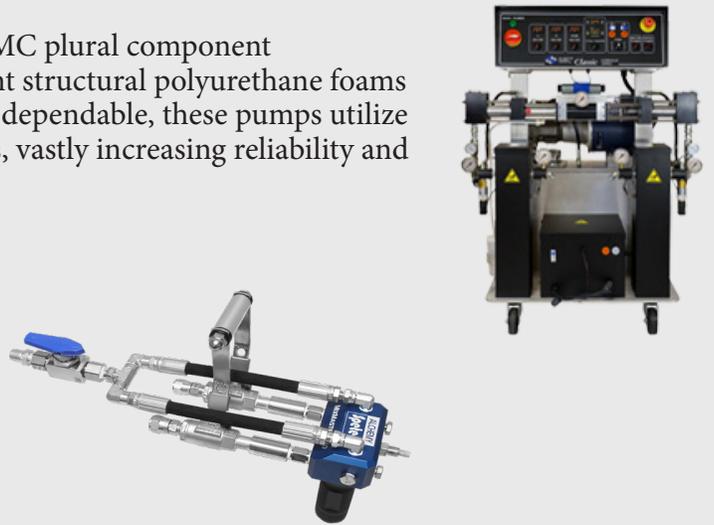
- Spare Parts Kits
- Cleaning Kits
- Dial Indicator
- Mechanical Leveraging Devices
- Ports
- Packers
- Coupler
- Flushes & Soaks

PolyBadger Mobile Lifting System

Tough, compact slab lifting option for new contractors, as well as an extremely portable addition to the experienced contractor's arsenal. The entire system can easily fit in the back of a pickup truck!

PolyShark Seawall Repair & Soil Stabilization System

Custom pump skid system for installation of single-component polyurethane geotech resins. This world-class skid set up is essential for large scale seawall repair, soil stabilization, and void fill projects.



EQUIPMENT

Impact 440 Electric Injection Pump

The IMPACT 440 is an advanced electric injection pump that's ideally suited for residential, property maintenance and small commercial applications.



PowrTwin 8900 Plus Electric Injection Pump

A step up for projects that require greater power and output, the PowrTwin 8900 Plus is our best-selling hydraulic piston pump, favored by contractors who want to complete large application jobs in record time with high profit margins.



Acrylate Gel Pump

The Alchemy-Spetec Acrylate Gel Pump is a reciprocating positive displacement piston pump. The material is delivered at a mixing ratio of 1:1. The large and exact operating valves provide a high flow rate and high mixing accuracy. This pump is durable and easy to maintain. All material transferring parts are made of stainless steel.



Leak Seal Accessories

- High Pressure Crack Injection Valve
- Flush Wand
- Ports
- Oakum
- Flush



Joint Fill Pump

The AST SOC-025 "Huskie" is portable, rugged and easy to maintain. Featuring stainless steel construction, changeable ratios and 6 gallon tanks, this electric powered pump is perfect for joint protection and joint repair jobs.

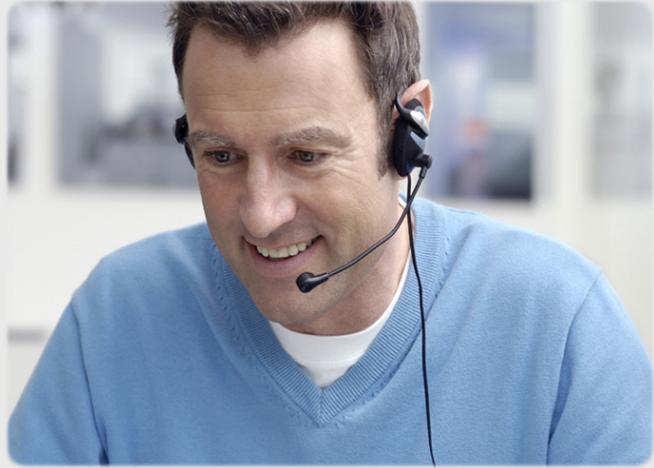


SERVICES

Tech-Support

404-618-0438

- Product Knowledge
- Job Experience



On-Site Consulting

We also offer fee-based *job site consultations and field training*. Call for details.



Noteworthy Projects



Alchemy-Spetec Projects

NY City School System - NYC - 2011 to Present - Leak Seal

Spetec PUR GT1100 and Spetec PUR H100 were used to curtain wall grout below grade brick basements in schools.

Beijing China Railway Bureau - January 2011 - Present - Soil Stabilization/Leak Seal

Ongoing project - AP Lift 475 used to raise railroad track slabs in tunnels in several locations of NE China. AP Fill 700 / Spetec PUR H200 and AP Soil 600 used to stabilize soil and shut down leaks.

Ft. Stewart - Augusta GA - August 2011 - Leak Seal

Force main valve vaults leak cutoff. New vaults housing the force main valves were leaking and Spetec PUR H200 was used to cutoff the major flow while Spetec PUR GT500 was utilized to seal up the pipe penetrations

Citizens Insurance - State of Florida - January 2012 - Present

Sinkhole remediation through permeation grouting

Over 200+ distressed residential and commercial properties have been stabilized thus far with AP Soil 600 injected as a permeation resin around the perimeter footings and interior slabs. Citizens Insurance is the State of FL owned agency established primarily for sinkhole and hurricane claims.

Kuala Lumpur Middle Ring Road - Kuala Lumpur, Malaysia - 2013 - Slab Lifting

Inject rigid polyurethane foam to increase the bearing capacity and lift the settled roadway at the toll booths.

Cincinnati Northern Kentucky Airport - Hebron, KY - 2013 - Soil Stabilization/Slab Lifting

Injected rigid polyurethane foam to stabilize and lift concrete slabs on taxiway.

Multi Family Residence - Tampa, FL - 2013 - Soil Stabilization

Injected rigid polyurethane foam into loose soil due to sinkhole.

US Steel - February 2013 - Leak Seal

AP-700 / Spetec PUR H200: Utilized to seal off groundwater infiltration into a molten steel pour pit.

Cincinnati Zoo - Africa Area - March 2013 - Leak Seal

Spetec PUR GT500 used to seal leaks in the concrete moat that surrounds the African Lion exhibit.

Ashton Ridge Apartments - Rome GA - July 2013 - Leak Seal

Three story apartment building built into the side of a hill so that the lower floor was below grade on one side. There was a fire in the building and the fire department used so much water that it cracked the monolithic concrete wall on the bottom floor. All of the lower units suffered water damage. They re-framed the walls and spray foamed insulation everywhere but they never repaired the crack. After the next hard rain event, water came through the crack and damaged the foam insulation and some sheet rock. Foam insulation was scraped off and over 200' of crack was stapled with carbon fiber and then injected with Spetec PUR GT500.

Layne (formerly Layne Christensen) - Fairburn GA Home Office - August 2013 - Leak Seal

Two story office building built into the side of a hill. Water coming through the joint between the concrete wall and the basement floor. Water also coming up through the floor joints. Spetec PUR GT500 injected into the joint where the wall and floor slab met. Floor joints were also under-sealed with Spetec PUR GT500 and Spetec PUR H200.

Orange County Wet Well - Orlando, FL - 2014 - Soil Stabilization

Injected rigid polyurethane foam to stabilize loose soil around concrete wet well.

Horseshoe Bend Dam - Roswell GA - June 2014 - Leak Seal

Pipe penetrations sealed with Spetec PUR GT500

FL DOT State Hwy 70 - July- August 2014 - Soil Stabilization/Slab Lifting

AP Lift 475 injected in grid patterns over several areas of this state highway. Effective chemical compaction grouting and void filling to prevent roadway dropouts.

McLane Distribution Center - North Carolina - 2014 - Leak Seal

Slab on grade warehouse built on fill in swamp with no moisture vapor barrier under the slab. 10,000 sq. ft. of the structure was climate controlled offices. Carpet kept delaminating and mold was evident. MVT readings as high as 17 lbs./ 1,000 sq. Ft./24 hours were recorded. Contractor injected approximately 1,600 gallons of Spetec PUR H100 under the slab to create a grout curtain. MVT levels were reduced to 3 lbs./1,000 sq. Ft./24 hours. Carpet was successful replaced and no further mold growth observed.

Dardanelle Lock and Dam - Arkansas - 2014 - Leak Seal

High volume leaks in lock and dam where sealed with Spetec PUR F400.

Brickell City Center - Miami, FL - 2014 - Leak Seal

Extreme leaks in below grade structure in Miami Tunnel were sealed with Spetec PUR H100.

Weaverville Storm Pipe - North Carolina - 2014 - Leak Seal

Stopped infiltration with Spetec PUR H100 as preparation for spin cast pipe repair.

Irrigation Pipe - Vacaville, CA - 2014 - Leak Seal

All joints in a 52 inch concrete pipe were sealed with Spetec PUR F1000.

Pipe Culvert Under Parkway - New Jersey - 2014 - Leak Seal

Leaking joints in large pipe were sealed with Spetec PUR H100 curtain grouting.

Tea Garden Ponds - San Antonio, TX - 2014 - Leak Seal

The Tea Garden Ponds at Brackenridge Park in San Antonio, TX contain a large collection of very valuable Koi Fish. They were a goodwill gift from Japan and a highly valued tourist attraction for the City of San Antonio. In 2014 the City of San Antonio was undergoing a severe drought and mandatory water rationing. Word came out on the local TV stations and newspaper that the Koi Pond was losing several thousand gallons of water per day. We were called in to consult of leak sealing. The Koi were removed to safety, the pond was drained and an approved contractor injected approximately 1,300 gallons of Spetec PUR H100 under the concrete slab and behind the rock walls to form a grout curtain. When the pond was refilled daily water losses were almost negligible.

Wells Foundation Cracks Project - Long Island, NY - 2014 - Leak Seal

Leaking cracks in foundation walls were sealed with Spetec PUR F400.

Eastside Utilities - Chattanooga TN - December 2014 - Jan 2015 - Leak Seal

1940's era Water treatment plant was losing over 1 million gallons per day through the joints between the floors and walls of the main tank. Spetec PUR GT500 injected into all of the joints and interior column penetrations to seal them up.

New York City - Metropolitan Transit Authority - February 2015 - Present - Leak Seal

As part of an ongoing project, Spetec PUR GT500 is being used to seal thousands of feet of cracks throughout new subway tunnels.

Twinn Oaks Foundation Wall - Long Island, NY - 2015 - Leak Seal

Slab leaks and foundation wall leaks were sealed with Spetec PUR F400 crack injection and curtain wall grouting.

Dix Hills Foundation Wall - Long Island, NY - 2015 - Leak Seal

Leaking foundation wall cracks were sealed with Spetec PUR F400.

Guangzhou Highway - Guangzhou, China - 2015 - Soil Stabilization/Slab Lifting

Injected rigid polyurethane foam to stabilize loose soil and lift a bridge approach slab.

Tunnel Leak Repair - Shao Guan, China - 2015 - Leak Seal

Injected flexible polyurethane foam to seal leaking highway tunnel liner.

Quality Mat Company - Beaumont TX, August 2015 - Leak Seal/Slab Lifting

The largest mat manufacturing company in the world. Spetec PUR GT500 used to stop water travelling between acres of double 12" exterior slabs. It was also used to seal the joints between the exterior double slabs and the interior slabs inside one of their buildings. AP Lift 475 was used on this project as well to lift some of the double 12" slabs back into place.

Orange County FL - August 2015 - Soil Stabilization

Stabilization of intersection of East Orange Ave and Landcaster Rd. in Orlando. AP Fill 700 injected in a grid pattern to stabilize the soils at this busy intersection and prevented a certain drop out situation. Adjacent leaking stormwater pipes were also sealed as a positive by product of this project. Work was completed in two 6 hour shifts on consecutive Saturdays.

Loggerhead Marina - West Palm Beach, FL - March 2015 - Leak Seal/Seawall Repair

Marina seawall leak seal and concrete apron lifting. Leaking joints between seawall panels were sealed using Spetec PUR H200 / AP Fill 700. 20" marina apron slab was lifted 2-3" back into place all while the marina remained in operation.

FL DOT State Hwy 13 - Fruit Cove / St. John's County - 2016 - Soil Stabilization

This state highway on the outskirts of Jacksonville had been plagued by areas sinking and even dropping out. The culprit was high ground water table as well as leaks in the storm water system. 14 different zones were treated with AP Fill 700, injected into a grid pattern to solidify the surrounding sandy soils, seal remaining infiltration leaks in the stormwater structures, and stabilize the roadway.

Duke Energy WS Lee Power Plant - South Carolina March 2016 - Present - Leak Seal

Ash pond drain pipe relining. Spetec PUR GT500, AP Soil 600, and Spetec PUR H200 are all being used on this project to seal leaks on pipes so they could be relined. Soil surrounding the pipes was also stabilized as well as voids being filled to make the pipes safe from collapse.

Ackerman Properties - Braselton GA - April 2016 - Kichler Lighting - Slab Stabilization

950,000 square feet of rocking slabs stabilized using AP Lift 475

Godley Realty - Charlotte NC - May 2016 - Soil and Slab Stabilization

400,000 square feet of slabs stabilized from rocking with AP Lift 440.

City of Largo FL - Aquifer - June 2016 - Leak Seal

While drilling the test piles for an expansion of the Largo Wastewater treatment plant, the aquifer was breached and started leaking at about 900 gallons per minute. Injection pipes were drilled and installed adjacent to the test pile and Spetec PUR H200 was injected at max catalyst. 500 gallons injected in less than one hour shut down the leak so construction could then continue. 4 weeks later the aquifer was again breached in a different area of the complex and this was also injected and sealed.

Ft. Lauderdale International Airport - July 2016 - Void Fill and Stabilization

AP Lift 440 injected as a void fill and compaction grout to fill abandoned below grade structures and to stabilize the taxiway shoulders.

Loading Dock - Atlanta GA - June 2016 - Slab Lifting and Stabilization

AP Lift 475 used to raise a ramp back up to a loading dock. Slabs were stabilized inside the building.

Florida DOT - State Highway 13 - 2016 - Soil Stabilization

Injected rigid polyurethane foam to stabilize loose soil beneath a concrete building.

Southern Peru Copper Mine - Toquepala, Peru - 2016 - Soil Stabilization

Injected rigid polyurethane foam to stabilize loose soil beneath a concrete building.

Federal Courthouse - Tijuana, Mexico - 2016 - Soil Stabilization

Injected rigid polyurethane resin to stabilize the foundation below a sinking multi-story concrete building.

Florida Aquifer Leak Seal - Clearwater, FL - 2016 - Leak Seal

Spetec PUR H200 used for water cutoff 30' below grade.

New Orleans Parish - March 2017 - Erosion Control

AP Soil 600 was used to stabilize sand that was placed around outfall structures.

Publix Shopping Center - Oviedo FL - August 2017 - Soil Stabilization

AP Fill 700 was used to stabilize a turning lane for a new Publix shopping center. Working with Universal Engineering and Stable Soils of Florida, permeation resin was used to strengthen soils and support the roadway. Injections were done on 3 foot centers in a diamond grid pattern, up to 24 feet deep.

Toho Water District - Kissimmee FL - November 2017 - Soil Stabilization

AP Fill 700 was injected 24 feet deep in a grid pattern surrounding a manhole structure. This prevented a road cave in.

Marathon Oil - Tampa FL - July 2017 - Seawall Repair

AP Lift 475 was injected behind a seawall at an oil terminal. Approximately 400 feet of wall injected. Voids filled, slabs stabilized, and pathways where soil was being lost were sealed up.

Soil Dam - Colorado - August 2017 - Leak Seal

Spetec PUR H200 was injected in a high-altitude soil dam, over 10,000 feet in elevation. Sinkholes and water leak pathways were sealed off in order to contain snowmelt water within the reservoir.

Stolthaven Marine Terminal - New Orleans LA - December 2017 - Leak Seal

Containment walls and slabs were under-sealed at a tank farm. Spetec PUR H200 was used as a curtain grout to prevent moisture from pushing up through cracks in the slabs, and to prevent chemical from penetrating through slabs in the unlikely case of a spill.

MTI Bathtub Manufacturing Facility - Atlanta GA - June 2017 - Slab Stabilization

Bathtub manufacturing facility had issues with rocking slabs. AP Lift 475 was injected underneath the slabs to fill voids and prevent further rocking.

MGM Seed and Grain - Saskatoon SK, Canada - May 2017 - Slab Lifting

Two foot thick slabs supporting grain silos had settled 1 inch in the back. Grain silos were tilting towards the building. AP Lift 475 was used to lift the 20 x 60 slabs back to level.

Florida Dept of Transportation - Destin FL - February 2017 - Leak Seal

Spetec PUR H100 used to seal pipes, catch basins and manhole structures.

Tallulah Hydro Plant - Tallulah Falls, GA - 2017 - Leak Seal

Spetec PUR H200 used to shut off dam leaks in excess of 600 gpm.

Division 7 Warehouse - Atlanta GA - January 2018 - Slab Stabilization

26,000 square feet of interior rocking slabs stabilized with AP Lift 475.

Duke Energy - Cowpens, SC - May 2018 - Void Fill / Infiltration Seal

AP Soil 700 used to seal culverts and fill voids in the surrounding soils. Culverts ran underneath settling pond for fly ash.

Northwest Terminals - Unity SK, Canada - August 2018 - Void Fill / leak Seal

AP Fill 700 used to fill voids and seal leaks entering below ground grain bins.

Shell Oil - Pittsburg, PA - July 2019 - Soil Stabilization

AP Soil 600 injected into settling soil that was backfilled over old machinery and vehicles.

Florida Power and Light – Ft. Lauderdale Florida – September 2019 – Soil Stabilization

AP Fill 700 used by contractors Moretrench and Hayward Baker to stabilize soil and stop infiltration of soil through the joints of twin 144” cooling water culverts. AP Lift 475 then used to support settling roadway above the culverts.

Orlando Health System – Orlando, FL – 2019 – Soil Stabilization / Curtain Wall in Soil

AP Soil 600 injected in a row beneath the footings of existing hospital building to support soils and allow for an excavation. AG Soil 200 acrylic resin injected to 15 ft to create a curtain wall to stop water migration from getting to the hospital.

Amazon – Jonesboro, GA – July 2020 – Slab Lifting

Warehouse slabs lifted and stabilized using AP Lift 475

NASA – Cape Canaveral, FL – August 2020 – Soil Stabilization

AP Soil 600 used to support 4 slap stands in the main vehicle assembly building.

Florida Power and Light – Belle Glade, FL – October 2020 – Soil Stabilization

AP Lift 440 injected in a grid pattern beneath maintenance vehicle parking lot to stop settlement of slabs.

DC Water / DC FloodGate Project - DC - 2021 - Soil Stabilization/Curtain Wall

1,750 gallons of AP Fill 700 was used to create curtain walls below grade in areas where the steel sheet piles could not be placed

Loggerhead Marinelifelife Center - Juno Beach, Florida - 2020 - Soil Stabilization/Curtain Wall

510 gallons of AP Soil 600 was used to create a solid curtain wall under the building footing so deep excavation could take place within feet of the existing building.



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