

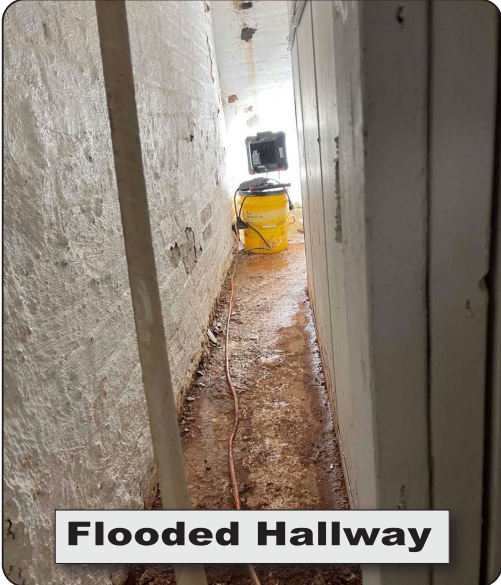


Sealing Leaks in a Church Wall to Stop Costly Flooding of Elevator Pit

The administrators of a church in Kingston, New York discovered water leaking through a wall into a hallway. The leak was located right next to the elevator. As water seeped into the elevator pit, it became flooded. Elevator pits often contain oil from hydraulic leaks in the equipment. Disposing of that oily water over and over can cost a property owner tens of thousands of dollars over time. The administrators reached out to LJS Waterproofing for assistance before the problem drove their budget through the roof.

Powerful Polymers

The LJS crew injected Spetec PUR F400 polyurethane grout to stop the water infiltration. Manufactured by Alchemy-Spetec, this material reacts with the water inside the concrete cracks, curing to form an impenetrable seal. Chemical grouts are the most reliable way to shut down leaks in concrete.



Physical Properties - Uncured - (appearance white liquid)

SPETEC PUR F400		
Viscosity at 77°F (25°C)	(ASTM D4878-98)	±340cps (±0.34 Pa·s)
Flash Point	(ASTM D1310-86)	>302°F (>150°C)
Density	(ASTM D3505-96 [2000])	1.067 ± 0.005 oz/ft ³ (1.068 ± 5.006 g/m ³)

Physical Properties - Cured

SPETEC PUR F400		
Tensile Strength	(ASTM D3574-03)	290psi (20 bar)
Elongation at break	-	±100%

Properties will vary depending on application conditions.

Painless Procedure

Concrete crack injection with polyurethane resin is a five-step process:

1. Drill the injection holes.
2. Flush debris out of the holes with water.
3. Install the injection port.
4. Flush the crack with water.
5. Inject the resin.

Rapid Result

The crew finished the repairs in a timely manner, saving the church a great deal of money in the process. The hallway is now completely dry and the elevator pit is no longer flooding. An ounce of prevention, in this case, was definitely worth a pound of cure!

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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