

**POWERFUL POLYMERS
PAINLESS PROCEDURES
RAPID RESULTS**

**Protecting a Building Foundation
Next to an Excavation Site**

A general contracting company working on an excavation job for a new sea turtle habitat at Loggerhead Marinelife Center in Juno Beach, Florida needed specialists to protect the foundation of the adjacent building from potential destabilization. A soil stabilization contractor was called in to create a polyurethane grout wall for this very purpose.

POWERFUL POLYMER

The crew used AP Soil 600, a single component, moisture activated, hydrophobic, extra-low viscosity, polyurethane soil grout. This is the premier product for stabilizing soil via permeation grouting. It's also NSF-approved for contact with drinking water. Using an environmentally safe repair material in a marine habitat is extremely important.



Physical Properties 77° F (25° C) - Liquid Physical Properties - Cured

AP SOIL 600			
Tensile Strength	(ASTM D-3574)	175 p.s.i.	12,066 millibar
Shrinkage	(ASTM D-1042/D-756)	Negligible	Negligible
Compressive Strength (with fine sand)	(ASTM D-575/D695)	2,085 p.s.i.	143,756 millibar
Pre-activated mix viscosity	37 - 39 Centipose		

Properties will vary depending on application conditions.

PAINLESS PROCEDURE

The crew drove injection rods into the ground next to the building foundation in a staggered pattern (see photo). The rods were 18 inches apart from each other to ensure consistent, thorough permeation of the soil with the high-strength grout. They injected at a rate of one gallon per foot. A total of 500 gallons was used to form the grout wall. The project was completed in just two days.

RAPID RESULT

The resin was cured within 24 hours of completion. The job was finished on a Friday. On the following Monday, the GC began excavation on the future sea turtle habitat without any fear of damaging the adjacent foundation.

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.