

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. Underground Services of America 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.

Painless Procedure

Underground Services of America professionals 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.

