SEAWALL REPAIR NETWORK

Case Study

Soverel Harbour Marina Seawall and Walkway Stabilization

Soverel Harbour Marina, a 2,700-linear-foot marina in Palm Beach Gardens, Florida, had significant underwater erosion and soil loss beneath its seawall and walkway. This repair project was initiated due to severe underwater erosion, verified by divers, which threatened nearby structures. The job was completed by Seawall Repair Network® contractors Stable Soils.



Initial Assessment

The inspection revealed that the underwater erosion was severe enough to require immediate attention. The team faced unique challenges, including working around luxury yachts without disruption, managing potential material travel in the water, and mitigating settlement issues in pavers.

Proposed Solution

To address these issues, the team proposed a phased injection approach using SWR-RP1 single-component polyurethane. This solution aimed to stabilize the soil, prevent further erosion, and maintain marina functionality while working around luxury yachts.

Procedures

1. Install turbidity barriers to contain potential material release.
2. Inject one gallon of SWR-RP-1 per vertical foot, every 3 feet along the joints of the seawall.
3. Install 3-inch steel pressure control filters between seawall panels for future maintenance.
4. Remove and replace pavers as needed.
5. Compact the soil and restore the pavers post-injection.

Results

The project began with an initial 250-foot test section, which was completed successfully using 830 gallons of SWR-RP1. After 18 months of monitoring with no reported issues, the Stable Soils team received approval to treat the remaining sections of the marina. To date, 1,000 feet have been completed, with plans underway to complete the remaining section.