SEAWALL REPAIR NETWORK

Case Study

Stabilizing and Preserving a Seawall in Portland, Maine

A waterfront property in Portland, Maine was in need of a seawall repair to protect the property from erosion and storm damage. This seawall showed signs of failure, including soil depressions near the wall, rust stains on the surface, movement and shifting, and cracks in the concrete. Seawall Repair Network® member LJS Waterproofing was called for an evaluation and advised that the property owner needed a solution that would both stabilize the seawall and preserve it for the long term.



Repair Materials

LJS Waterproofing used SW-RP1 seawall repair material on this job. SW-RP1 transforms the surrounding soil of your seawall into a water-tight impermeable mass, which blocks the transference of energy and lateral stress caused by the typical build-up of hydrostatic pressure behind the seawall. SW-RP1 is environmentally safe and is certified to NSF (61-5) standards for contact with drinking water.

Procedures

The first step was to stabilize the soil and control hydrostatic pressure. This was done by injecting the Seawall Repair Network®'s SW-RP1 into the soil behind the seawall. SW-RP1 is a soil-stabilizing material that is stronger than crystalline bedrock and safe for the environment. It seals leaks and controls hydrostatic pressure, which helps to prevent further movement and shifting of the seawall.

The next step was to preserve the concrete seawall. This was done by applying the Seawall Repair Network®'s SW-Power to the surface of the concrete. SW-Power is a concrete hardener that strengthens the surface and makes it resistant to air or water-borne chemical damage. After that, LJS Waterproofing applied SW-Surcoat on top of the surface which is a concrete sealer that protects the surface of the seawall from water penetration, making it look nearly new.

Results

The seawall repair project was a success. The seawall was stabilized, and the soil behind it was protected from further movement and shifting. The concrete surface was also preserved, and the seawall was made to look nearly new. The property owner was pleased with the results and the work that was done by LJS Waterproofing.

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