SEAWALL REPAIR NETWORK

Case Study

Repairing a Seawall on Lake Michigan

Seawall Repair Network member Bluebird CFW recently completed a repair project on Lake Michigan. The seawall showed signs of significant deterioration due to the harsh weather conditions and constant exposure to freeze-thaw cycles.

Repair Materials

The technicians 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 standards for contact with drinking water. In addition to SW-RP1, the crew also used concrete preservation materials to address protect the concrete surface of the seawall.



Procedures

Before beginning the repair process, the technicians conducted a thorough assessment of the seawall to determine the extent of the damage and the best course of action. Once the repair plan was developed, the team began the process of preparing the seawall for repair. This included the removal of any loose or damaged concrete, as well as the installation of a protective layer to prevent further deterioration. With the seawall prepared, the team began the process of installing SW-RP1 seawall repair material. The SW-RP1 was applied in stages, and the soil was thoroughly solidified. Seawall Repair Network's hydrostatic pressure control system was then installed. Next, concrete preservation materials were then applied to protect the surface of the seawall. Once the process was complete, the team conducted a thorough inspection of the seawall to ensure that it was fully repaired and ready for use. Upon completion of the inspection, the seawall was deemed fully repaired.

Results

The seawall was fully restored to its original strength and stability, ensuring that it will be able to withstand the harsh weather conditions of Lake Michigan for years to come.