

Installing Fish Farming Lining Systems

SURE-GRIP® CASE STUDY



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Project Overview

Project name: Norway Salmon Breeding Farm

Project date: 2006-2008

Products: Sure-Grip®

In 2006, Sure-Grip® concrete protective liners were installed at a fish farm in Salsbruket (Norway, Nord-Trøndelag). As a result of the liner's performance, additional projects were installed in 2007 and 2008.

Situation

Due to severe overfishing in the oceans, several species of fish are threatened with extinction. Therefore, fish farming has become an essential industry in several countries.

In Norway, salmon farms are an important economic branch of that industry, but in most cases concrete basins using adhesive coating systems perform well but can require frequent repairs.

Solution

In 2006, Agru installed a new system at a fish farm in Salsbruket (Norway, Nord-Trøndelag). The system supplied was a white polyethylene Sure-Grip® concrete protective liner that was three millimeters thick and specially formulated for food grade and UV-stabilization. Working in close cooperation with our distribution partner, Agru created precast elements with Sure-Grip® lining. These elements were manufactured in a precast plant and shipped to the site by sea freight.

It should also be noted that we installed several kilometers of water supply line for this project in addition to the concrete protection solutions. Made from PE 100, the piping systems supplied water to the basins at different temperatures, which helped create optimal conditions for the fish. It also helped the basins function without the use of chemicals or antibiotics.



Figure 1: Fish farm in Norway

Outcome

The company's response to the installation was overwhelmingly positive. The Sure-Grip® liner performed much better than its predecessor, provided superior containment and was more cost efficient due to reduced maintenance.

Several other companies were observing the performance and, as a result, we began additional projects in 2007. The project also resulted in Sure-Grip® liner installations at two large fish farming companies in the region of Lofoten that were installed by in-situ construction in 2008.



Figure 2: Sure-Grip® after installation

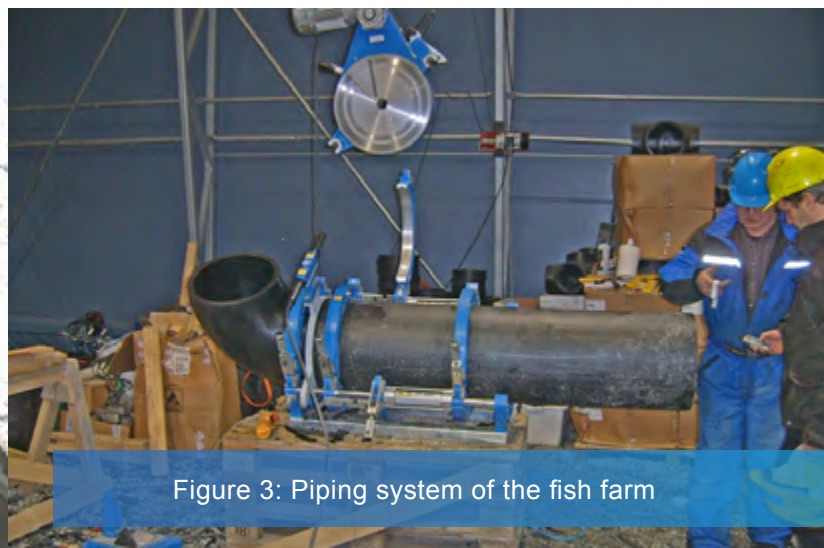


Figure 3: Piping system of the fish farm

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