

Project:

Waterproofing of fish farm vessels, Phases 1 and 2.

Location:

Follafoss, (Norway)

Project completed:

2019

Owner/s:

SalMar Settefisk

Applicator/Contractor:

Odda Coating Technology AS

Market sector:

Food & Beverage Industry

Products used & quantities:

MasterSeal 6689: 7000 m² + 7000 m²

MasterTop 1324: 3000 m² + 2000 m²

SalMar – Follafoss Fish farm

Waterproofing of onshore smolt farming tanks



Health of the fish was the number one priority in selecting a membrane for SalMar's facility in Follafoss, Norway

The background

SalMar is one of the world's largest producers of farmed salmon with activity along the coast of Norway.

In 2017 SalMar began building a new onshore smolt nursery at Follafoss in central Norway for the young salmon, or smolts. Phase 1 involved the construction of new tanks while Phase 2 saw existing tanks demolished and replaced with new ones

The new Phase 1 plant comprises 22 pools with 12,500 m³ of water. Phase 2 comprises 18 pools.

The challenge

The cast-in-situ concrete tanks required a waterproofing membrane that would ensure continuous operation of the tanks without leakages and provide a seamless, smooth surface. Another vital requirement was that the membrane would not contaminate the water, as the health of the fish hugely impacts the final quality of the salmon.

Contact:

Master Builders Solutions Norway AS

Gullfotdalen 2

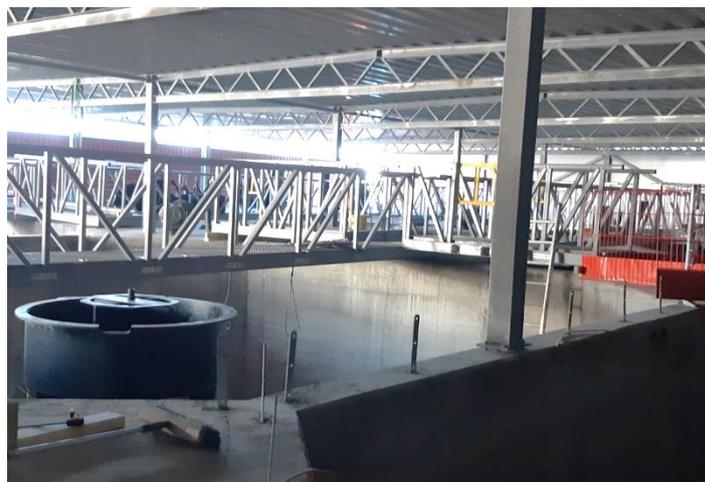
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SalMar – Follafoss Fish farm

Waterproofing of onshore smolt farming tanks



Our reference in SalMar's facility in Follafoss, Norway

Our solution

Tanks were waterproofed using the following procedure:

- Sandblasting reinforced concrete surfaces.
- Application of MasterSeal 6689 systems which comprises:
 - Priming using Xoludex technology with MasterSeal 770.
 - Waterproofing with spray-applied polyurea membrane lining MasterSeal M 689.

In addition to the waterproofing, an easy-to-clean, resilient, crack bridging, polyurethane flooring system, MasterTop 1324, was applied to the floors in both phases.

Benefits to the customer

MasterSeal M 689 can be applied very quickly and without any seams and can withstand the structural movements of the tank that otherwise would result in cracks.

MasterSeal M 689 does not transfer any significant quantities of contaminants to water and is thus completely harmless to fish.

The smooth surface, without any joints or ridges, also ensures the fish cannot injure themselves.

Project facts at a glance

- **SalMar Follafoss Phase 1:**
 - Approx. 7,000 m² MasterSeal 6689 waterproofing system.
 - Approx. 3,000 m² MasterTop 1324 flooring system.
- **SalMar Follafoss Phase 2:**
 - Approx. 7,000 m² MasterSeal 6689 waterproofing system.
 - Approx. 2,000 m² MasterTop 1324 flooring system.

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Further information is available at:
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