

PROJECT CASE

Tailing ponds Libanlait Bekah Lebanon

Date
July 2019

Surface Area
13 000 m²

Product(s)
Geomembrane + AFITEX P400

Company
Fares Aboud Co.

Project Owner
Libanlait

Project Management
Libanlait

Description of Project & Issue(s)

A Tailing Pond was built in Baalbak west of the Bekah in Lebanon to collect and reserve sludge residues from dairy products produced by a surrounding factory, to prevent pollution of the Litani river located in the region.

Solution(s)

To ensure the waterproofing of the Pond, an AFITEX P400 geotextile as well as a 1.5 mm geomembrane was laid at the bottom and slope of the Pond in order to collect wastewater and sludge coming from the factory.

The geotextile will protect the geomembrane against puncturing.

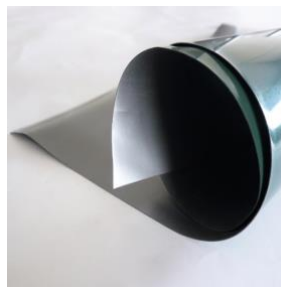


Pond completed with a geomembrane surface on the Gotextile and anchored at the crest of the slopes

Description and function of the products

A smooth 1.5mm thick waterproofing geomembrane to prevent leakage of water and sludge residues.

A 400 g / m² geotextile to ensure the mechanical protection of the geomembrane



Geomembrane

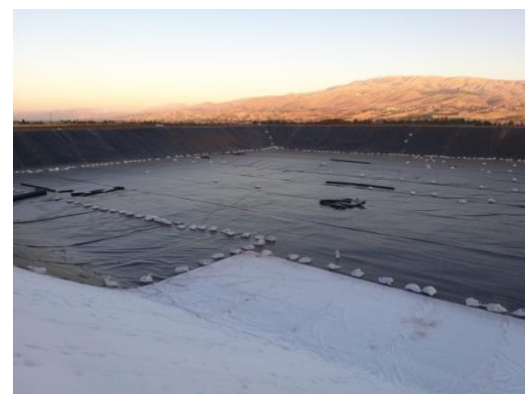


AFITEX P400

Implementation

The geotextile is unrolled on a smooth sub-layer of foundation, then it is installed and welded on the geomembrane.

The geomembrane and geotextile are anchored at the head of the slope in an anchoring trench around the perimeter of the pond.



Geotextile and Geomembrane

Work Progress



Pilot Project



Main Tailing Pond

Avantages of the proposed solution

- The purpose of the geotextile is to provide mechanical protection of the geomembrane at the bottom of the foundation, and to prevent any deformation of the waterproofing membrane.
- The geomembrane will ensure a good seal and prevent any leakage of sludge and wastewater to the underground bottom.

CONTACT

AFITEX MIDDLE EAST
Tel : +961 1 900078
johnny.khamisse@afitex.com