

What Makes a Successful Project?



BACKGROUND

Iron mine located in Central America.

In 2021 the Mining company put into operation a vertical integration project that includes the extraction of iron, pelletizing plant, and a 25MW power plant, that provides necessary electricity for the entire project, sending the rest of the energy produced to the national grid.



- 107.250,00m² ALVATECH LLDPE 2FIX GM17 2,00mm
- 56.437,50m² ALVATECH HDPE 1FIX GM13 1,50mm
- 2.925,00m² ALVATECH 5002 HDPE GM13 1,50mm
- 107.000m² ALVABENT GCL 4300 LT
- 31.000m² ALVADRAIN MA 5 drainage sheet



ALVATECH GEOMEMBRANE. CHARACTERISTICS

- Excellent chemical resistance to attacks by acids, alkalis, and organic and inorganic solvents.
- High mechanical resistance in a wide range of temperatures
- High coefficient of friction
- Great durability in an exposed environment
- Smooth borders for easy welding
- Flexibility and versatility with a wide range of applications.
- Higher installation performance

CHALLENGE

The process required the construction of a tailing dam and a clean water pool, both waterproofed with Geosynthetics.

The installation of the Geosynthetics was carried out between August 15 and November 15, 2021 by the Mexican installation company, POLILAINER.

The waterproofing was a huge challenge due to the climatic characteristics of the area, with average rainfall of more than 80mm per day and temperatures above 30°.

RESULT

In choosing **Alvatech®** Geomembrane, the superior friction angle of the product was important, thanks to its 57,000 spikes per m² exceeding 0.90mm height, which provides a high safety coefficient, and is especially appreciated by the Mining Industry.

The sheet width of 7.50 meters and the special formulation of the product allows for higher yields in the installation, improving the final finish of the project and saving on installation time.

