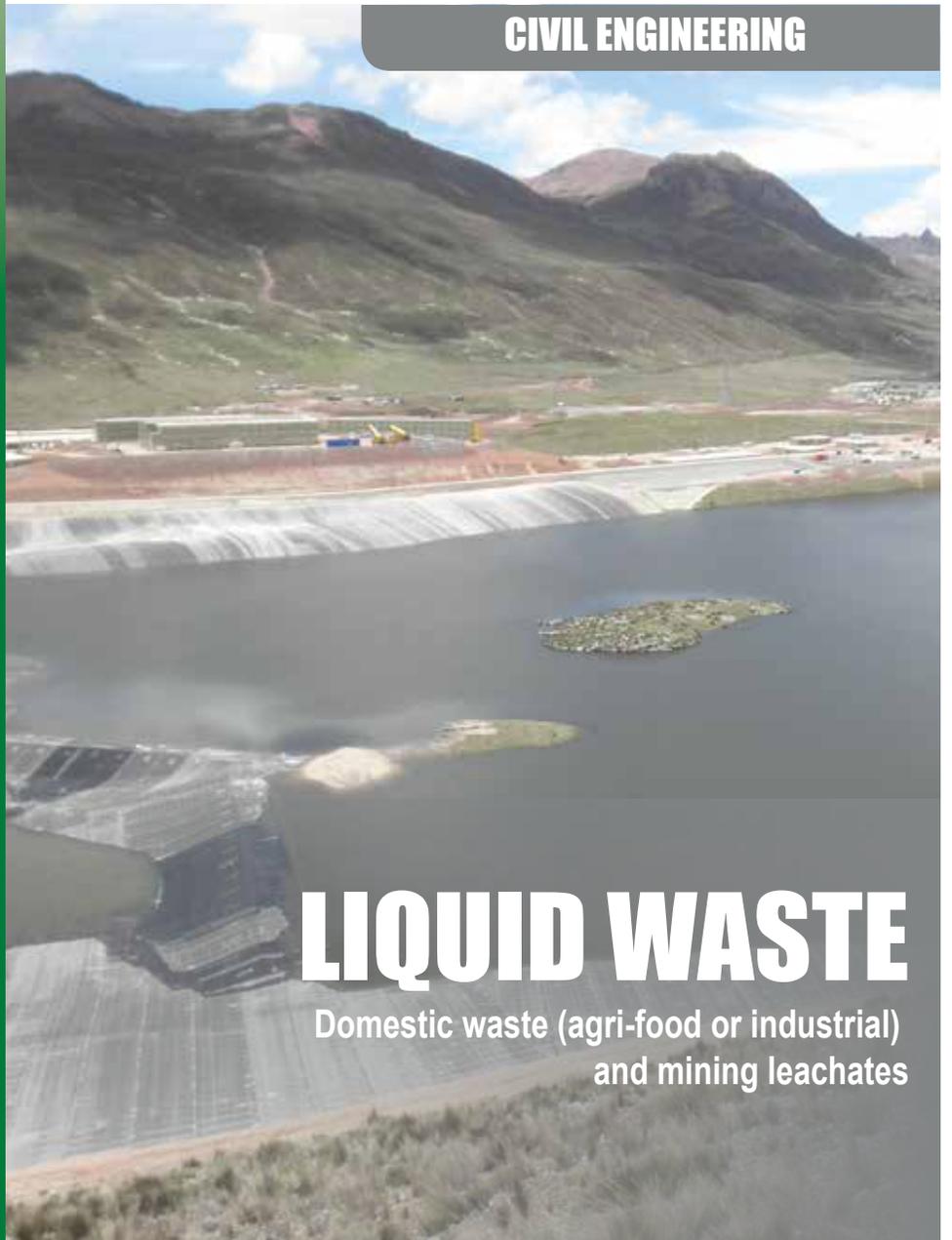




ENVIRONMENT  
liquid waste storage

# COLETANCHE®

CIVIL ENGINEERING



## LIQUID WASTE

Domestic waste (agri-food or industrial)  
and mining leachates

# COLETANCHE®

## Bituminous geomembrane for storage of liquid waste

The construction of basins designed to hold liquids or polluted industrial effluents is increasing, while groundwater protection has become a priority in Europe and in the rest of the world. This originated in Europe and in France with the water law.

Thanks to its natural sealing performance and resistance to common chemical and biological pollutants, the COLETANCHE® geomembrane is widely used to seal leaching basins and polluted water retention basins in the mining of agri-food, industrial, etc. By its nature, COLETANCHE® effectively ensures its essential function for waterproofing and offers many other advantages:

### High Resistance to U.V

The nature of the elastomeric binder (SBS) and the sanded top surface of COLETANCHE® allows for use in exposed conditions, without any special protection against ultraviolet rays. By avoiding the addition of a protective layer, the use of the COLETANCHE® geomembrane saves on storage volume.

### Chemical Resistance

The binder based on bitumen-SBS is stable in water environments, sea water, brines and our technical team is able to meet your specific needs\*. Experience shows excellent performance of COLETANCHE® for the following projects: saltwater storage (salt and potash mines), agri-food, sugar plants, copper and nickel mining leachates, etc.

*\* A detailed study is required if the pH effluent is less than or equal to 2 and greater than or equal to 13.*

### Compatibility with Asphalt

The nature of COLETANCHE® makes it especially compatible with asphalt or other bituminous concrete\*. These materials can be used as membrane protection layers to enable cleaning of basins, access to machines and truck works. The waterproofing seal remains continuous.

*\* A fiber reinforced concrete protection is also possible.*



### Dimensional Stability

Conversely to polymeric geomembranes, which are susceptible to expansion phenomena and subject to tensile rupture, COLETANCHE® has a high dimensional stability. This advantage allows the works to withstand liquid pressures due to the maintained flatness of the geomembrane (no wrinkles or other weaknesses).

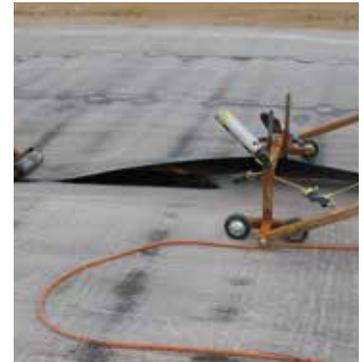
Concrete high-rise vertical walls can also be sealed with COLETANCHE® without constraints.



## Fast and Reliable Implementation and Maintenance

The surface weight\* of COLETANCHE® and its tolerance to temperatures between -40 °C and 40 °C (-40 and 104° F) allows for implementation in extreme weather conditions (wind, rain, cold). Thus, avoiding site interruptions, deadlines are met and the works are quickly underway.

*\* A surface weight between 4.2 and 6.4 kg / m<sup>2</sup> (124 to 189 oz/lyd2) enables for COLETANCHE® to resist movement by wind. Intermediate anchor techniques enables use in very windy areas.*



### GENERAL SUMMARY OF PERFORMANCE

High puncture resistance which reduces subgrade preparation and allows for site use, where the vehicles can roll on the geomembrane.

Watertight connection solutions with most commonly found materials on civil engineering projects: concrete, PVC, steel, asphalt, etc.

Easy covering without the need of adding a geogrid or another method of grip due to the roughened sandy surface in the fabrication.

A great ease to repair tears by welding patches



Implementation in all conditions

# COLETANCHE®

by  AXTER

## International Civil Engineering waterproofing specialist

For 40 years, the COLETANCHE® geomembrane has been chosen by Civil Engineering professionals. Strengthened by our experience in the environmental field, our research and development team has developed the "Liquid Waste Storage" solution in response to environmental demands.

### COLETANCHE® project references in this application include:

- > 6000 m<sup>2</sup> / Industrial effluents, Rusal's Aughinish / Ireland
- > 86 000 m<sup>2</sup> / Industrial water recycling, Eppeville sugar plant / France
- > 520 000 m<sup>2</sup> / Mining Effluents, Kittilä / Finland
- > 21 000 m<sup>2</sup> / Settling basin / France, Pau
- > 13 000 m<sup>2</sup> / Swamp filtering / Malbaie, Canada...

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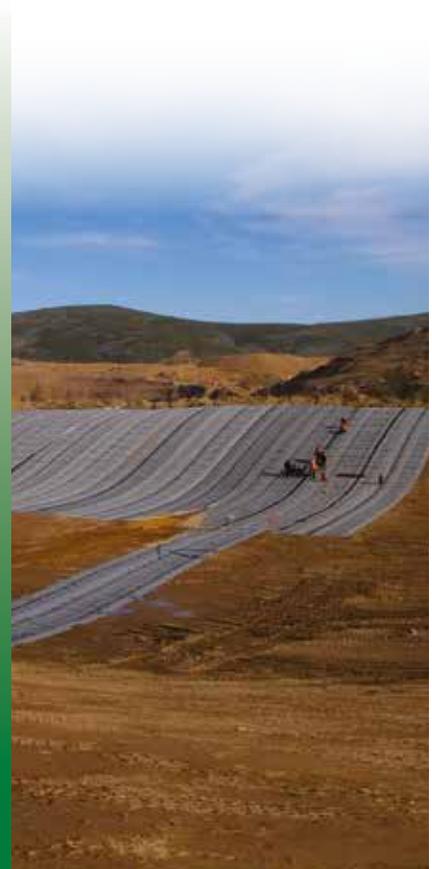
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