



ENVIRONMENT
biogas barrier

COLETANCHE®

CIVIL ENGINEERING



BIOGAS BARRIER



COLETANCHE®

Bituminous geomembrane biogas barrier

To limit urban expansion, reconstruction of existing urban areas (brownfield sites) is increasingly demanded. In this context, the use of COLETANCHE® on natural or man-made contaminated sites (radon, old landfill, former industrial or mining sites, etc.) makes them suitable for the construction of buildings or infrastructure. Installed before foundations or asphalt paving, COLETANCHE® provides a superior gas-tight barrier thus preserving the air quality of overlying buildings.

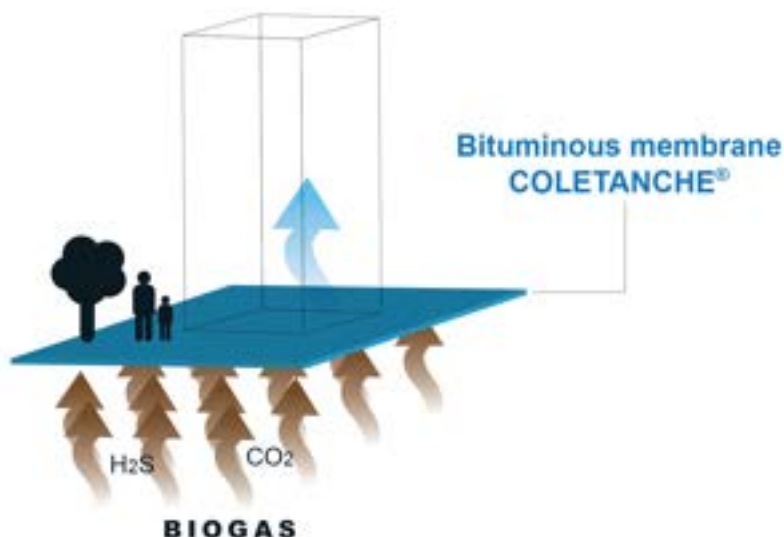
Unique waterproofing guaranteeing the integrity of the works

COLETANCHE® is installed directly on the supporting substrate and can easily be bonded to details (inlets, outlets ...). Welding is possible on all supports (concrete, steel, PVC...). The flexibility of the membrane means that it can easily seal the most inaccessible locations.



A superior biogas barrier

Methane gas permeability of COLETANCHE® is lower than $2 \times 10^{-4} \text{ m}^3/(\text{m}^2 \cdot \text{j} \cdot \text{atm})$ according to the ASTM D1434 standard. This value, based on the thinnest product (2,2 mm) is much lower when using thicker liner.





Simple and quick installation

COLETANCHE® installation requires no special tools. The welds are made using a gas torch, with or without a hidden flame.

High dimensional stability

COLETANCHE®, unlike polymeric geomembranes, remains flat without wrinkling whatever the temperature. It suffers no fatigue phenomenon to expansion. Concrete can be poured directly on the geomembrane, without risk of creasing or chemical reaction.



Excellent resistance to puncture by aggregates

COLETANCHE® can be installed directly on embankments with a particle size of less than 60mm (2.35 inch) without additional geotextile layers. This is due to the thickness of COLETANCHE® and its integral reinforcement.





International Civil Engineering waterproofing specialist

For over 40 years COLETANCHE® geomembrane has been used by Civil Engineering professionals. From our experience in environmental protection, our research and development engineers have developed the Coletanche Biogas Barrier in response to the high demands for the protection of contaminated sites. There are numerous references for COLETANCHE® in this application including:

- > 12500 m² / Parking at the Stade Jean Laville, Gueugnon / France
- > 11800 m² / Corus Entertainment Building / Canada
- > 15000 m² / « Heuston Station » Extension, Dublin / Ireland
- > 15000 m² / Wal-Mart, Shawinigan / Canada...

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