



HYDRAULICS
irrigation-shipping canals

COLETANCHE®

CIVIL ENGINEERING



NAVIGATION



IRRIGATION



DISTRIBUTION

CANALS

Irrigation,
distribution,
and navigation canals.



COLETANCHE®

Bituminous geomembrane for canals

COLETANCHE® is the premier choice for waterproofing all types of canals (irrigation, distribution, and navigation) around the world. The COLETANCHE® geomembrane can be installed in highly abrasive environments.

Superior puncture and tear resistance

The COLETANCHE® geomembrane can be installed without protective geotextile layers. Since they have an embedded reinforcement, COLETANCHE® geomembranes provide superior puncture and tear propagation resistance. With this superior property, it can be laid over harsher subgrades.



No stress-cracking

The COLETANCHE® geomembrane has a much longer service life than polymeric geomembranes, which undergo stress-cracking.

Flexibility and wind resistance



COLETANCHE® geomembranes are very flexible and adaptable to various canal shapes and inlet structures. The puncture resistance of COLETANCHE® means that construction and maintenance vehicles can travel on COLETANCHE®. The high mass of COLETANCHE® resists wind uplift.

Excellent Manning coefficient

The COLETANCHE® geomembrane gives a high water flow velocity in the channel and remains in constant contact with the subgrade without wrinkling.

High density

The high density of COLETANCHE® geomembranes (specific gravity of 1.22) denotes that it will not float upwards. A bitumastic sealant can be used to seal joints underwater.

Resistance to penetration by roots and plants vegetation

The COLETANCHE® geomembrane resists penetrations by roots and vegetation thanks to a Terphane film coating on the underside.

Potability

The COLETANCHE® geomembrane can be used for irrigation canals and drinking water distribution.

Safety of the people and the animals

COLETANCHE® has a high friction angle which prevents people or animals from slipping and falling.



* Contact us for information on NSF potability certificates.





Identical waterproofing quality over the entire surface of the structure



PENETRATION



WELDING TO CONCRETE,
STEEL, AND POLYMERIC
STRUCTURES



WELDING TO ROCK

Ability to weld to all materials: concrete, PVC, steel, HDPE, etc.

Excellent UV resistance

The elastomeric binder used in the COLETANCHE® ES product range provides excellent UV resistance.

Compatibility with hot mix asphalt



The bituminous composition of COLETANCHE® enables hot mix asphalt to be applied directly on the geomembrane.

◀ Hot mix asphalt on the base of the canal to help annual maintenance.

Installation

- No sophisticated equipment is required to install the COLETANCHE® geomembrane. A simple propane torch is all that is needed. Teams can be trained on site, wherever they are in the world, by our trainers.

- Deadline compliance: COLETANCHE® geomembrane can be installed without interruption



Very low ambient temperatures
◀ (as low as -45°C in Siberia and Northern
Canada)

Very high ambient temperatures ▶
(35 to 45°C in Africa)



Easy to install

- Usual maintenance equipment can travel directly on COLETANCHE® geomembrane.
- Customer maintenance teams can repair, modify, or extend existing structures by themselves.
- Due to COLETANCHE® flexibility, COLETANCHE® can be installed in very narrow canals.





International Civil Engineering waterproofing specialist

COLETANCHE® geomembranes have been used by civil engineering professionals for over 40 years. Our R&D Department puts its extensive environmental expertise to work to develop canal solutions that meet the specific requirements of each site.

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