



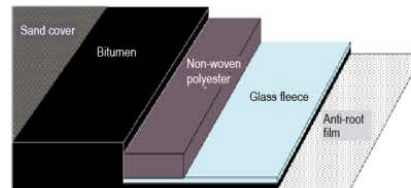
Compatibility of bituminous geomembranes Coletanche with asphalt

? COLETANCHE® is a bituminous geomembrane manufactured by bitumen impregnation of a non-woven geotextiles produced by an US firm.

The implementation of the European Community Regulation on surface water runoff from roadways requires collection of stormwater runoff.

Stormwater runoff from roadways contains numerous pollutants including heavy metals such as zinc from tires and barium and antimony from brakes, and particulates from exhaust, as well as dust from roadway wear and tear.

These pollutants carried by the stormwater runoff will make their way to waterways (rivers and lakes) and groundwater aquifer eventually impacting the potable water supply.



Therefore, to abide by the European Community Regulation they are instances where it is necessary to waterproof the ditches along the roadways and build settling ponds.

Lining with a geomembrane is the preferred method to waterproof these ditches and ponds. Consequently, the use of the bituminous geomembrane Coletanche to line ditches and settling ponds along highways is becoming more common.

This increasing use is linked to the significant advantages of Coletanche over other polymeric geomembrane:

Simplified and economical installation

- High puncture resistance of Coletanche allows installation over rough surfaces and backfilling with drainage gravel with no cushion geotextile. Laying down one geosynthetic rather than 2 or 3 speeds installation and reduces costs. There are additional benefits such as a reduction of CO2 emissions when the number of truck trips is de facto reduced.

- Installation is possible in adverse weather conditions - wind, heat, and cold (as low as -25 ° C) -. Tight deadlines can be maintained in all seasons.

Enhanced site safety



- The surface density of the bituminous geomembrane is greater than that of any other polymeric geomembrane which considerably reduces the risk of wind uplift. This is a very important consideration for safety when the geomembrane is installed along or near a busy roadway. Traffic does not need to be interrupted or re-routed to protect against potentially flying geomembrane panels

Reliability and Durability



- The thermal stability of Coletanche allows it to lie flat on its support whatever the temperature. It can be covered easily with the correct depth of backfill material.
- On-site interventions are quick, safe, and economical.
- Coletanche is a geomembrane which is easily and reliably repaired.
- Fully compatible with bituminous asphalt, Coletanche can ensure a continuous seal between the roadway lanes or emergency stop lanes and ditches. Asphalt can be laid directly on top of Coletanche to create easily:
 - cleanable reservoir ou pond.
 - storage area for: Compost, Ash, Clinker or wastes rock, heap leach pad.

