

Reference project

PERMEABLE PARKING IN URBAN AREA

Sustainable water pollution control solution: TenCate GeoClean[®] Origin active oil-biodegrading aquatextile.

Function : Fixation of hydrocarbons and PAHs, then activation and amplification of their natural biodegradation in the long term.

Context : Management of run-off water from road and parking area, as part of a project to rehabilitate the car park area of the Bouilloux-Laffont stadium in Benodet (France, Brittany, 29).

Challenge : The aim is to create additional municipal parking facilities with a permeable paving combining green and mineral pavement surfaces, which fits in perfectly with the environment of a Brittany coastal city. Two structures based on infiltration at the source were chosen: grassed paving stones with thick joints for the parking spaces, as well as a swale to collect run-off water from the vehicles circulation lanes. The design of a permeable parking area allows the infiltration of run-off water while providing a green and sustainable solution by clearly and neatly delimiting each parking space.

Date: March 2021

Location: Bénodet (29) - France

Application: Permeable car park area and swale

Contractor: Bénodet

Project Manager: Maîtrise Ouest

Public works company: Bellocq paysages

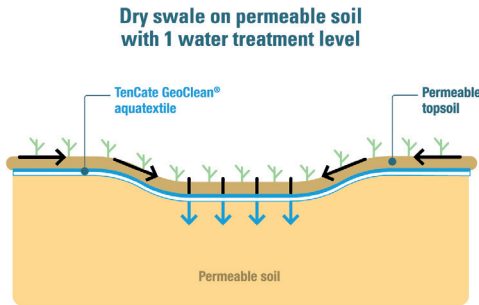
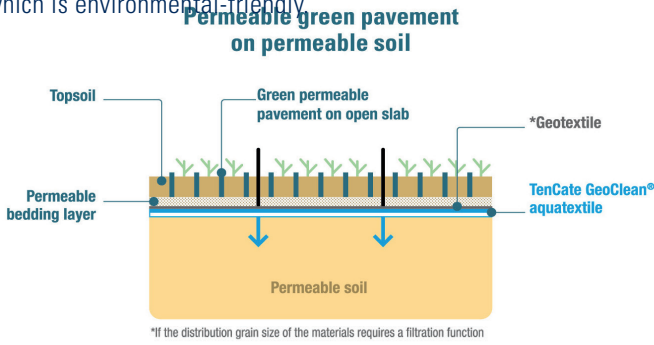


The active oil-biodegrading aquatextile, TenCate GeoClean®, is laid both at the bottom of the swale under a 40cm thick coarse gravel layer and under the parking spaces with permeable pavement.

Run-off water polluted by oil leaks from road surfaces and impermeable parking spaces is therefore directed towards the permeable parking spaces, and then, in the event of high floods, towards the green swale.

Technical solution chosen:

TenCate GeoClean® Origin aquatextile has made it possible to manage diffuse oil pollution including PAHs (chronic oil leakage) but also small accidental spills (including illegal oil changes), and to infiltrate depolluted water. It is a simplified installation solution that blends harmoniously into the landscape and which is environmental-friendly.



With the natural growth activator available on the blue continuous filaments of the aquatextile, the endemic microorganisms living in the soil and in the water will rapidly colonise its porous structure to degrade the hydrocarbons fixed on the filaments and maintain the retention capacity of the aquatextile on the long term.



| Installation of the active oil-biodegrading aquatextile TenCate GeoClean® under the parking spaces

| The permeable parking allows the infiltration of run-off water

For more information on projects, installation of the aquatextile, the added value of the solution and project savings, please contact us:



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ACTIVE OIL - BIODEGRADING AQUATEXILE

Fixes hydrocarbons including PAHs and boosts systematically their biodegradation in the long term