

Problem:

Groundwater protection for unpaved parking surfaces



How does oil and petrol enter the ground?

- Leaking hoses and connections
- Spillages when topping up engine oil
- Run off during vehicle cleaning
- Oil, grease and fuel residue washed off vehicles during rain storms

What are the consequences?

- Topsoil contamination
- Slow migration of contaminants/mineral oils
- Diffuse contamination of groundwater
- Costly cleaning and remediation measures

What should an unpaved protective system ensure?

- Infiltration of precipitation into ground
- Permanent binding of petrochemical products, e.g. oil, diesel and petrol
- Guarantee for optimum trafficability



Solution:

Parking surface system with oil barrier function

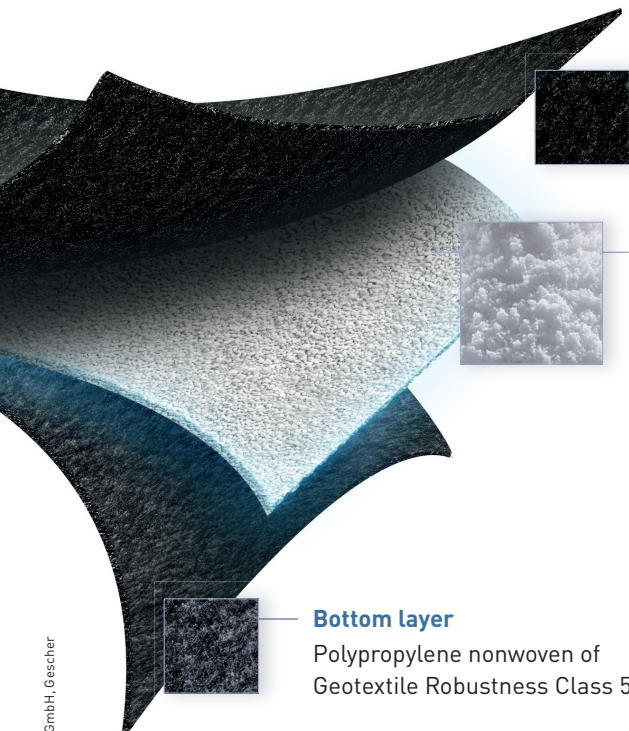


System structure

- Pervious surface, e.g. grass / segmental block paving units, paving grids
- Base course material, e.g. gravel, crushed stone
- Active geocomposite **Tektoseal Active AS**, absorption mat for petrochemical products
- Composite product comprising geogrid and nonwoven, e.g. Basetrac Duo-C (for weak or heterogeneous soils)

System benefits

- Pervious surface allows precipitation to infiltrate into ground
- Contaminant barrier: oil, petrol and diesel are permanently bound and cannot pollute groundwater
- Easy trafficability due to surface stabilisation
- Adequate bearing capacity, with any potential differential settlement evened out by geogrids



Tektoseal Active AS

Top layer

Polypropylene nonwoven of Geotextile Robustness Class 5

Active layer

Oil-absorbent polymer whose structure and surface properties make it particularly suitable for separating oil/water mixtures.

Bottom layer

Polypropylene nonwoven of Geotextile Robustness Class 5

Tektoseal Active AS	
Function	Oil absorption
Contaminants	Oil, diesel, petrol, kerosene etc.
Oil-binding capacity per m ²	Tektoseal Active AS 200 : > 3.0 ltr Tektoseal Active AS 400 : > 7.0 ltr
Oil release under load	0% for 0.1 bar imposed load
Certifications	Oil binder with German LTWS certification

We would be delighted to provide you with any technical advice.

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