

## CONCRETE IN A ROLL

THINK DIFFERENT



Tiltex is advanced product which can be quickly and easily formed giving the desired shape. Hydrated with a small amount of water, it can very shape durable and firm structure serving as a ground structure reinforcement or protection liner.



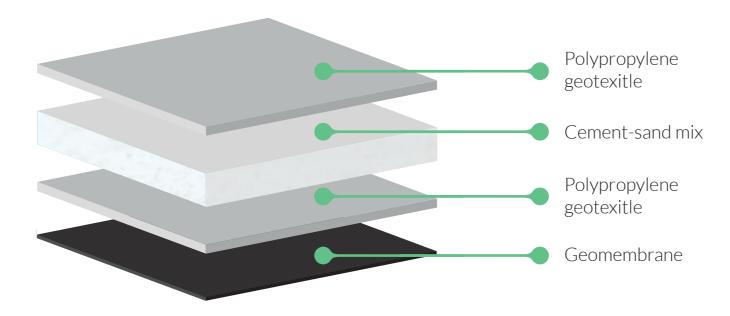
# CONCRETE INAROLL



#### **TILTEX**

**ADVANTAGES:** 

It is a needle-punched composite consisting of a specially developed blend of cements and sand, and its outer layers consist of polypropylene nonwoven fabrics. It can be combined with an additional layer of polyethylene geomembrane to achieve additionally waterproofing properties - this type is called TILTEX Plus.



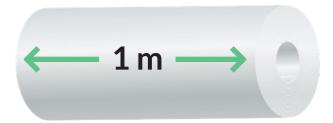
The amount of sand-cement mixture placed between the geotextiles is selected according to the required applications of the product: lower weights are recommended for protective functions, higher weights for erosion control.

For conventional applications, TILTEX is offered in 4 different cement weight gradations while the composition of the textiles remains unchanged. The weights offered are 7 kg/m<sup>2</sup> 9 kg/m<sup>2</sup>, 10 kg/m<sup>2</sup>, 12 kg/m<sup>2</sup>.

TILTEX is produced in a variety of sizes to best suit the project:  $5 \times 20$  m,  $2.5 \times 20$  m,  $1 \times 5$  m.



- Excellent alternative to conventional materials
- Quick and easy installation
- Suitable for long and steep slopes
- Environmentally friendly
- Minimal transport costs (approx. 2400 m²/ truck)
- Cost effective solution
- Heavy equipment not required
- Safe and stable over time
- TILTEX Plus available with membranes from 0,2 mm to 2,0 mm









#### HOW TO INSTALL TILTEX?





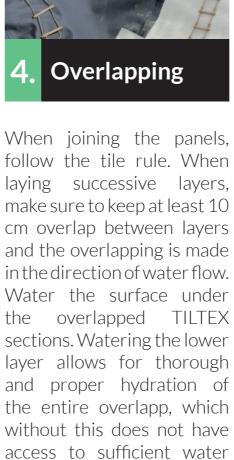


3. Fixing and cutting

TILTEX will fit the underlying surface shape, therefore any sharp rock, organic matter and other objects shall be removed. Avoid empty voids. The subgrade should be compacted to a relative proctor of at least 90% (it can be checked by the sand cone method).

Unroll the TILTEX liner on the prepared surface. The orientation of panels on slopes shall be parallel to the slope. For easier handling and positioning, it is recommended to provide a lifting device that allows the rolls to be lifted with a front-end loader. The core can be used as an unloading device as well as for liner installation.

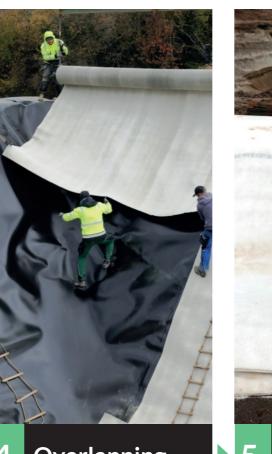
Prior to hydration, TILTEX is flexible, so it can be freely adapted to the ground and objects on it, e.g. culverts and piles. Fitting is easy as TILTEX can be cut on site to adjust the size and shape of teh panels to the a typical carpet knife is sufficient for cutting.



amount.



After fixing and connecting, spray TILTEX with water. The minimum water to liner ratio is 1:2. There is no risk of overhydrating. To ensure sufficient hydration, TILTEX should be re-sprayed after 1 hour from first hydration. TILTEX needs minimum 90 minutes to start curing.

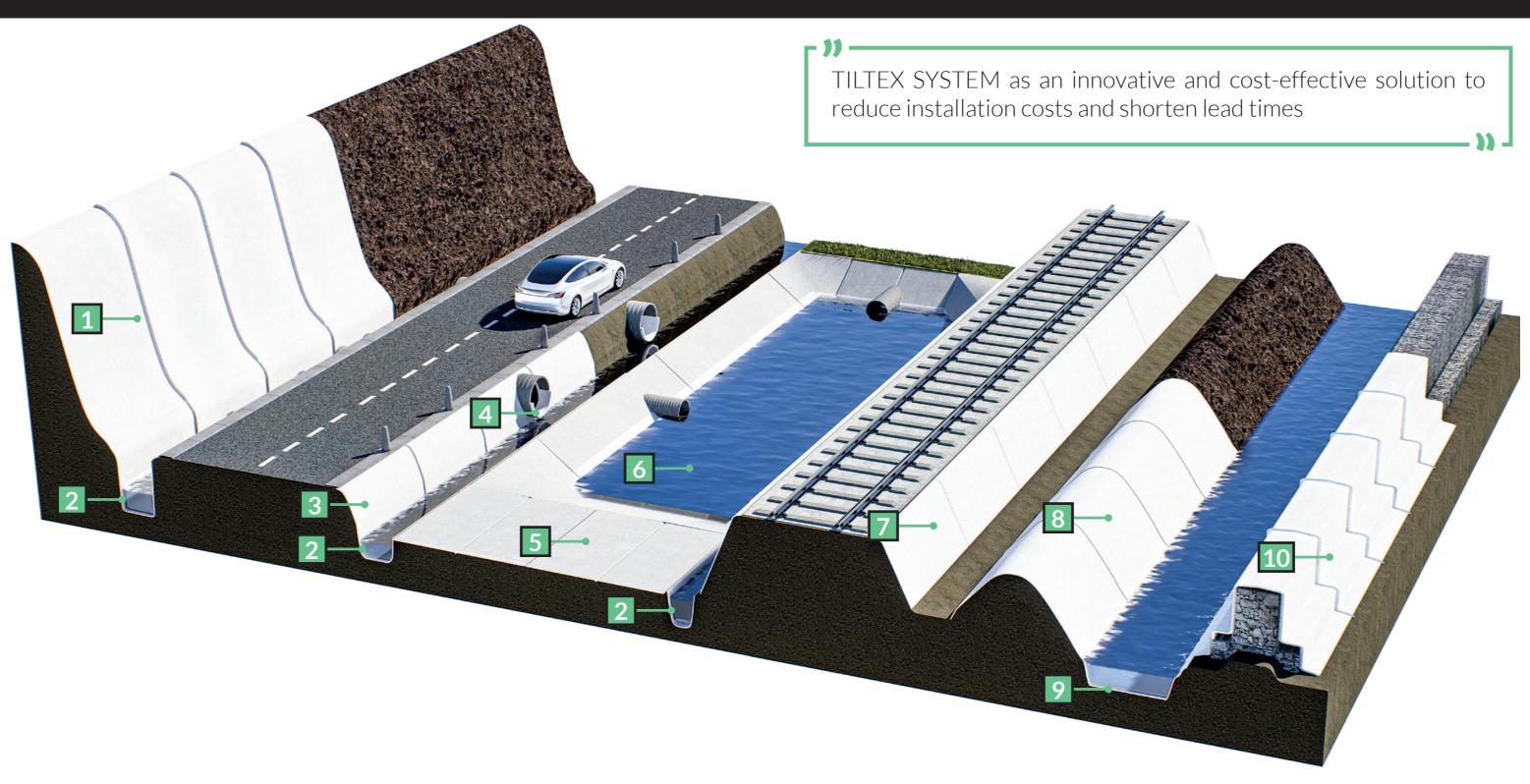








### TILTEX IN DIFFERENT APPLICATIONS:



- 1 Slope protection
- 2 Ditch lining
- 3 Road slope protection

- 4 Culvert lining
- 5 Vegetation regulation
- 6 Reservoir bed and slope protection
- 7 Railway slope protection
- 8 Bund lining

- 9 River bed and slope protection
- 10 Gabion remediation





#### **BUND LINING**

CANAL AND DITCH LINING





**CULVERT LINING** 

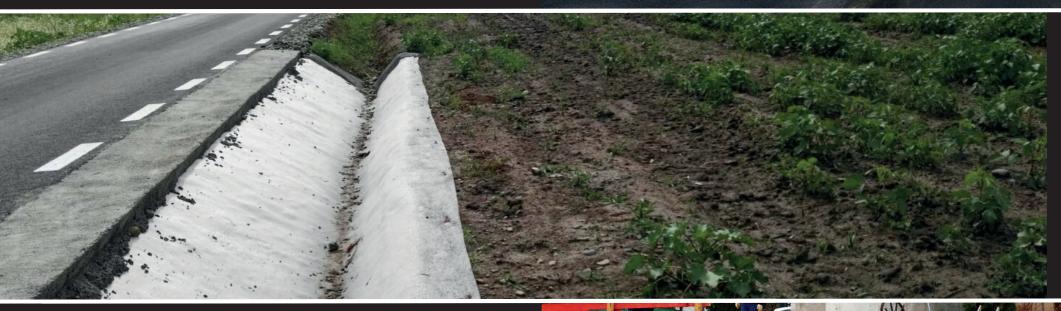




### POND AND RESERVOIR LINING

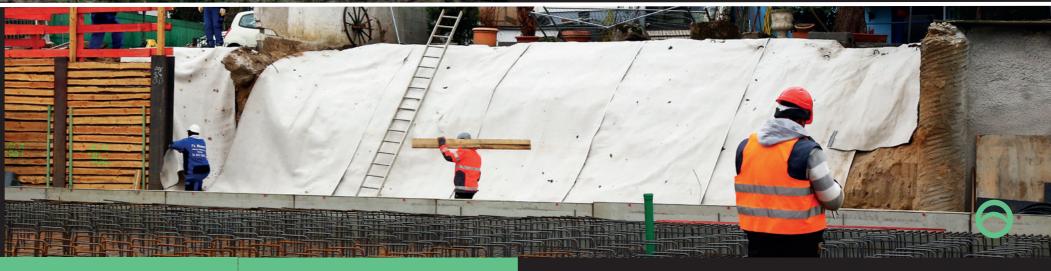
GEOMEMBRANE PROTECTION





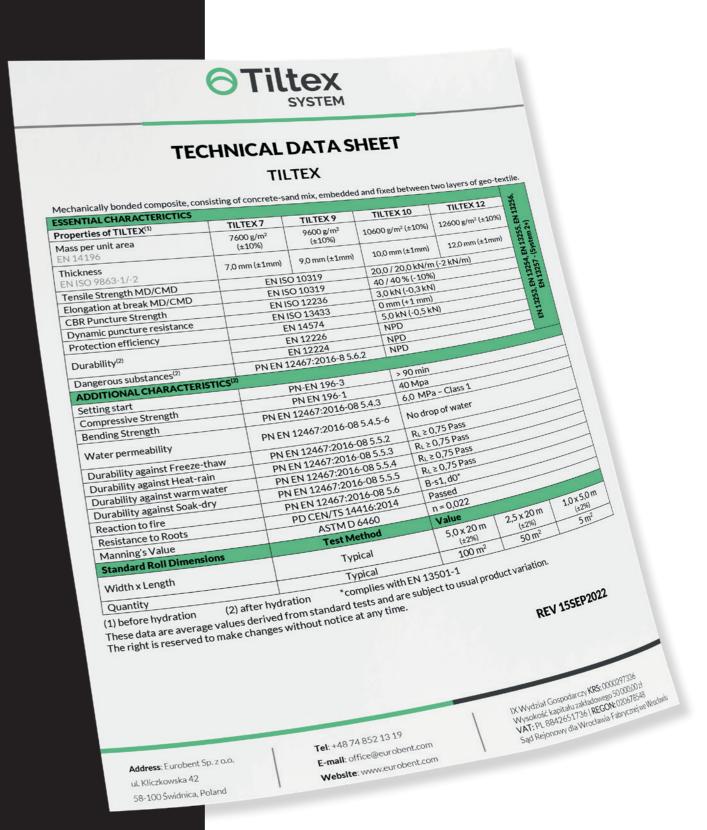
ROAD AND RAILWAY DITCHES LINING

**SLOPE STABILIZATION** 



### TILTEX FEATURES:

- Depending on outside temperature and quantity of water used for hydration, TILTEX needs minimum 90 minutes to get hard while full readiness for use is after 28 days
- The composite has a high tensile strength, which prevents it from being damaged during installation the minimum tensile strength, according to EN ISO 10319 is 20 kN/m
- The composite is characterized by high puncture resistance, which guarantees a homogeneous concrete cover already at the installation stage, therefore a uniform coating after hydration is ensured. The minimum puncture resistance according to EN ISO 12236 is 3 kN
- It has high puncture and tensile strengths still before hydration, so it guarantees safety in transport and during installation
- Tiltex can be offered in two types of cement and sand mixes. Their compressive strengths are 40 MPa or 80 MPa respectively
- Before hydration it retains the elasticity of the geotextile and therefore adapts perfectly to the subgrade on site
- TILTEX is non-flammable. Its reaction to fire class B-s1, d0 allows it to be used as fire insulation
- Its protection efficiency indicates that it can be used to protect geomembranes and beyond
- It is resistant to root penetration, so it can be a barrier to vegetation
- It is tested for freeze-thaw cycles and no change of properties have been oserved, so temperatures do not affect its performance
- It has a high abrasion resistance and will perfectly protect sensitive surfaces
- 50 year manufacturer's warranty
- Production in accordance with European standards: ISO 9001, ISO 14001
- Cast but not least the ease with which the required shapes and sizes can be adjusted, rearranged and cut on site, makes the installation extremely simple and smooth









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