



CONCRETE IN A ROLL

THINK DIFFERENT



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



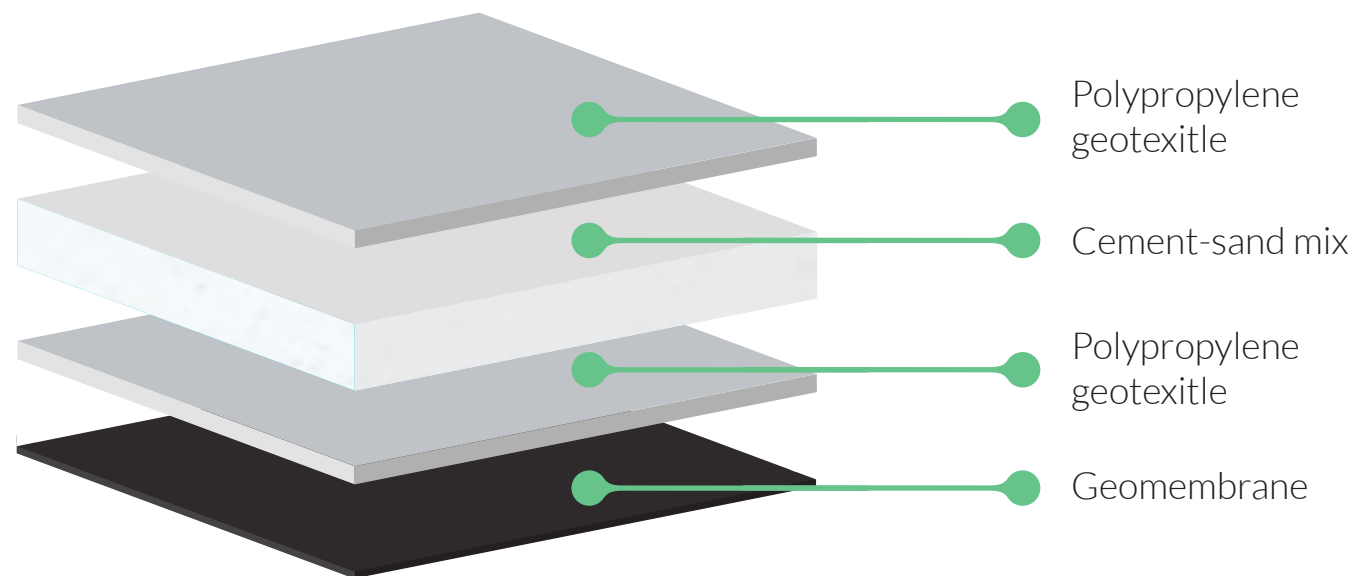
CONCRETE

IN A ROLL



TILTEX

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 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.

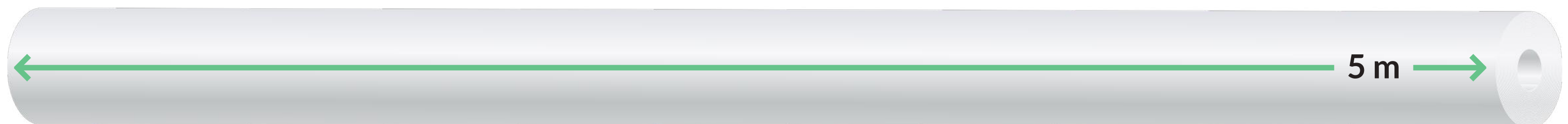
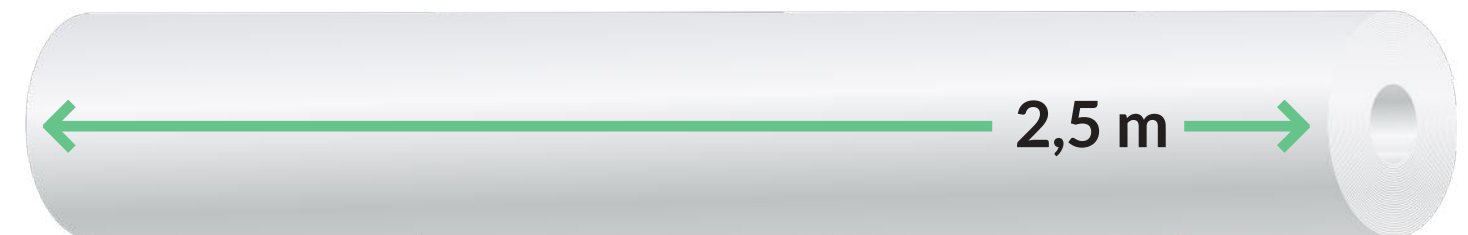
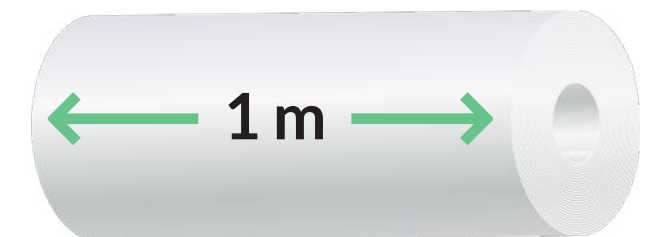
For conventional applications, TILTEX is offered in 4 different cement weight gradations, while the composition of the textiles remains unchanged. The weights offered are 7 kg/m², 9 kg/m², 10 kg/m², 12 kg/m².

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

ADVANTAGES:



- ⊗ 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 0,2mm to 2,0 mm



HOW TO INSTALL TILTEX?



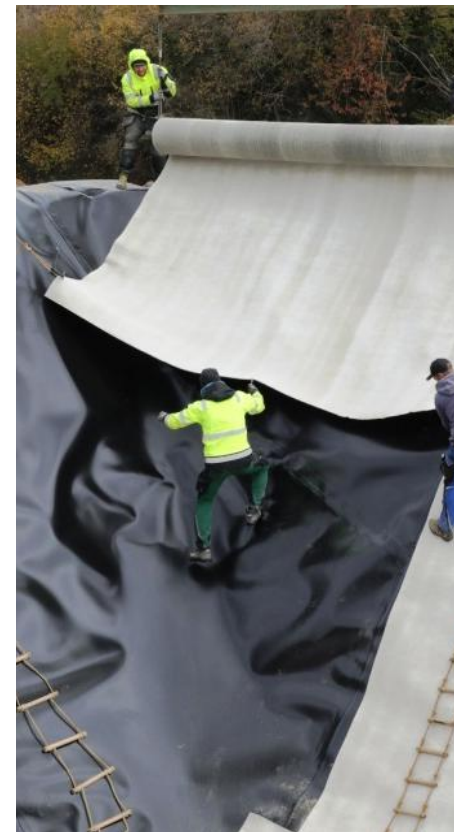
1. Subgrade preparation



2. Unrolling



3. Fixing and cutting



4. Overlapping



5. Anchoring



6. Hydrating

TILTEX will fit the underlying surface shape, therefore any sharp rock, organic matter and other objects shall be removed. 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 the panels. A typical carpet knife is sufficient for cutting.

When joining the panels, follow the tile rule. When laying successive layers, make sure to keep at least 10 cm overlap between layers and the overlapping is made in the direction of water flow. Water the surface under the overlapped TILTEX sections. Watering the lower layer allows for thorough and proper hydration of the entire overlap, which without this does not have access to sufficient water amount.

The overlaps should be fixed with screws every 20 cm, and screws shall be placed 5 cm from the edge of the TILTEX. The edges of the TILTEX should be fixed in anchor trenches. The positioning of the anchors on the surface of the panels should be adapted to the conditions at the installation site - we will help to design the anchoring if necessary.

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 the first hydration. TILTEX needs minimum 90 minutes to start curing.

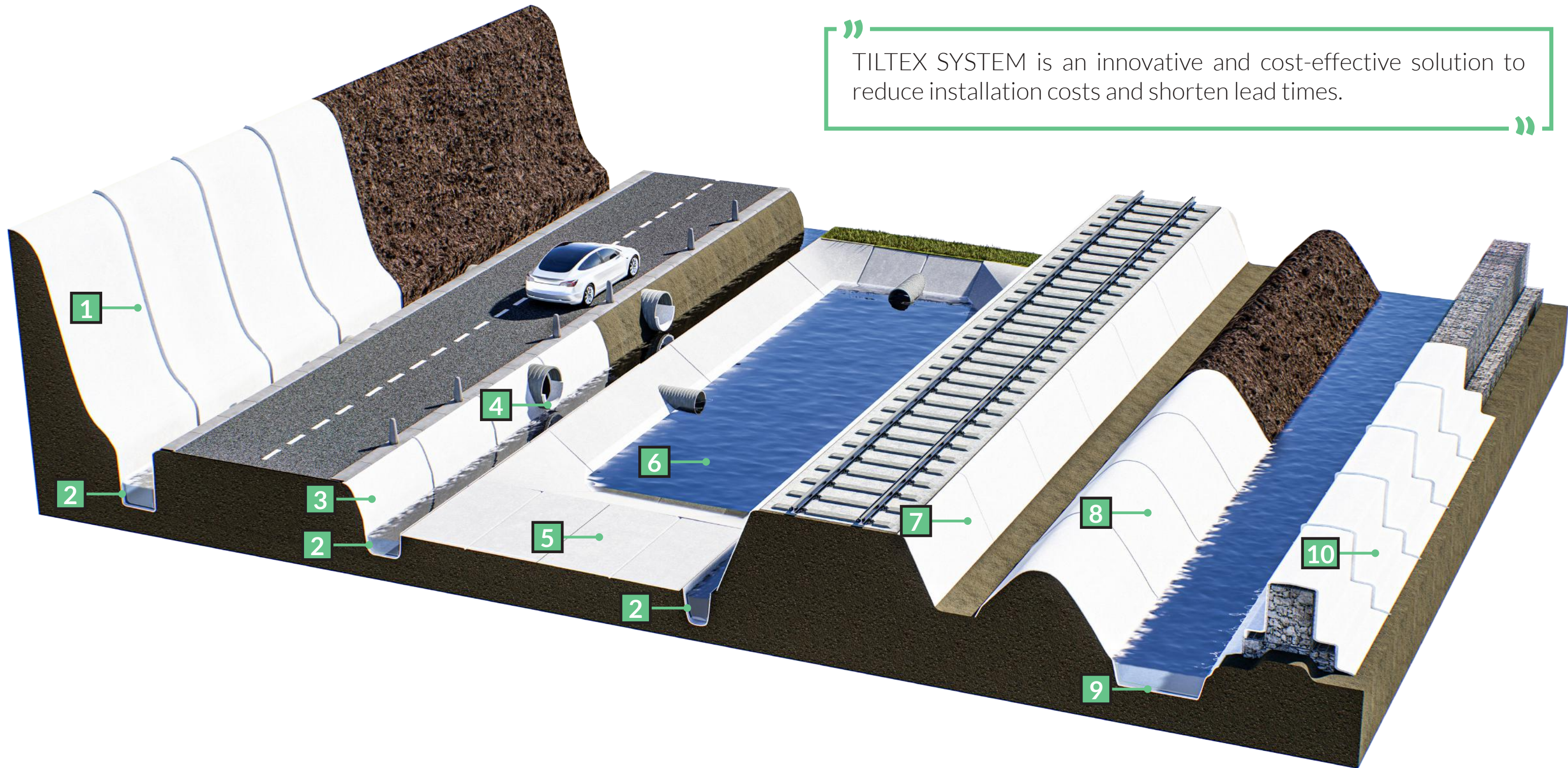


TILTEX IN DIFFERENT APPLICATIONS:

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TILTEX SYSTEM is an innovative and cost-effective solution to reduce installation costs and shorten lead times.

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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



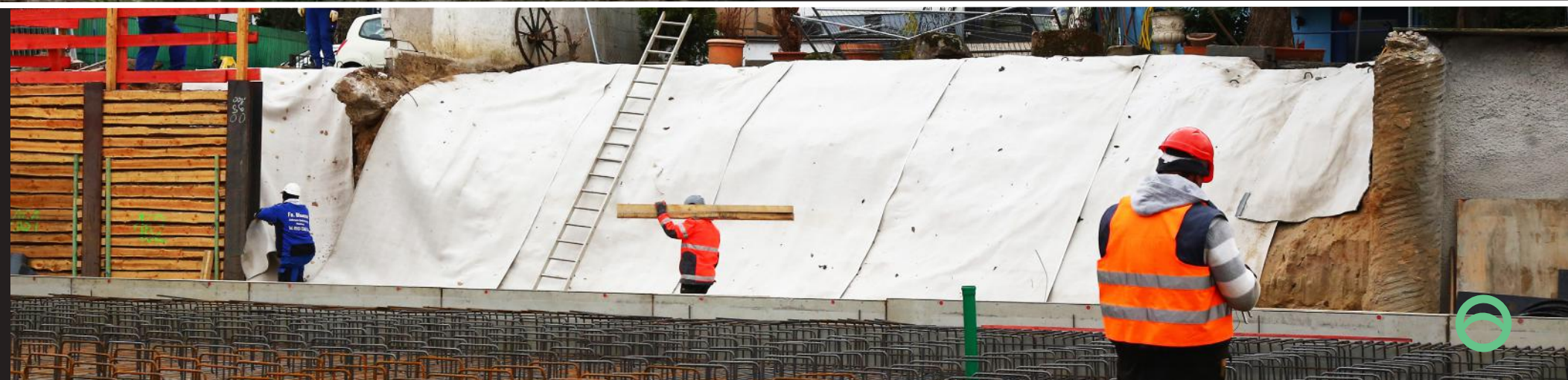
**POND AND RESERVOIR
LINING**

**GEOMEMBRANE
PROTECTION**



**ROAD AND RAILWAY
DITCHES LINING**

SLOPE STABILIZATION



A close-up, black and white photograph of a curved, textured surface, possibly a piece of wood or a biological specimen. The surface is rough and fibrous, with a dark, irregular shape that could be a hole or a lesion. The lighting is dramatic, highlighting the texture and the curve of the object.

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- A close-up, black and white photograph of a curved, textured surface, possibly a piece of wood or a biological specimen. The surface is rough and fibrous, with a dark, irregular shape that could be a hole or a lesion. The lighting is dramatic, highlighting the texture and the curve of the object.

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Eurobent Sp. z o.o.
Kliczkowska 42
58-100 Świdnica
Poland



tel. +48 74 852 13 19
www.eurobent.com
www.tiltexsystem.com
office@eurobent.com