

Robutec®

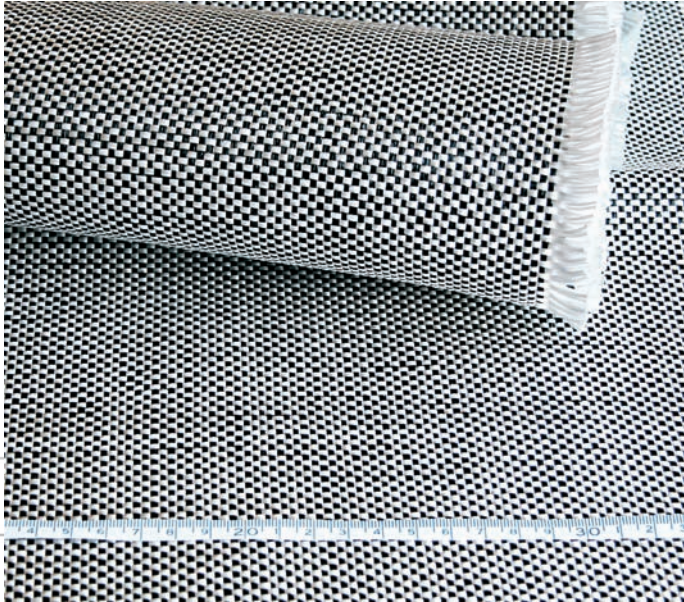
Reinforcement and
separation fabric
for high specification
applications



HUESKER
Ideen. Ingenieure. Innovationen.

Robutec® - soil reinforcement in demanding situations

Manufactured from polyvinyl alcohol (PVA), **Robutec®** is a high modulus, low-creep, alkali-resistant reinforcement fabric.



Robutec® has many advantages compared with products made from other polymeric materials:

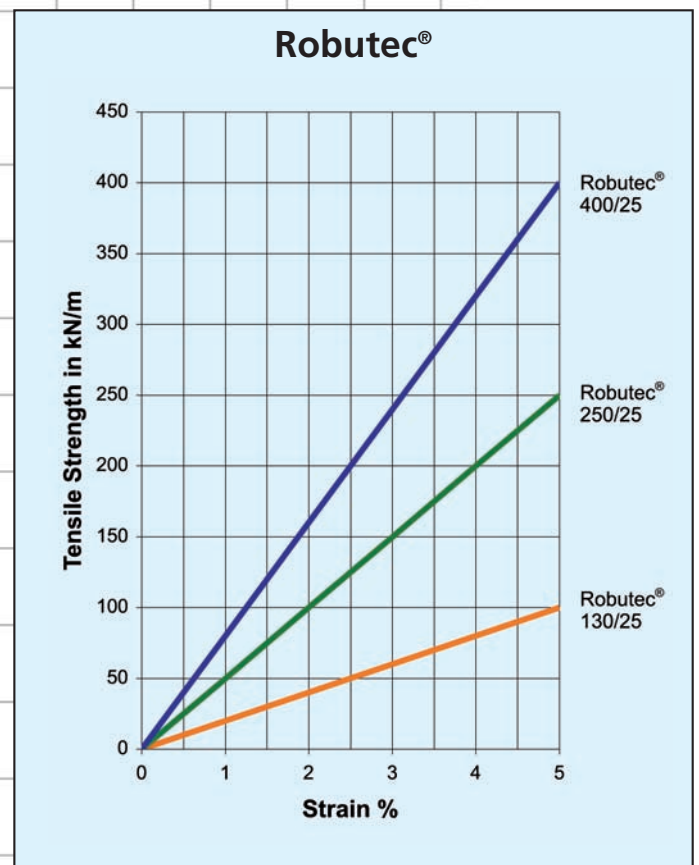
- ➔ resistance in alkaline (pH-value range 2-14) environments
- ➔ immediate load take-up with very low elongation
- ➔ modulus up to and beyond 36000 kN/m
- ➔ tensile strengths up to 2200 kN/m (uniaxial) and 500 kN/m (biaxial) in both directions
- ➔ very low creep
- ➔ high resistance to mechanical damage

Robutec® - applications in earthworks, foundations and landfill

Robutec® is used as soil reinforcement in situations where conventional products or materials cannot fulfil high project-specific requirements.

Areas of application include geotechnically very demanding construction projects where low deformation plays a crucial role.

Robutec® should be used where reinforcement is installed in very high, or low, pH-value environments.



Tensile stress/strain graphs for standard **Robutec®**

Robutec®- applications in earthworks, foundations and landfill

Examples of Robutec® applications

- embankments on soft ground
- piled embankments and similar earthworks structures
- bridging of underground voids (subsidence pits, sinkholes)
- filling or capping of sludge lagoons
- soil stabilisation in contaminated ground, e.g. for land reclamation
- soil reinforcement in cement-stabilised soils
- soil reinforcement in alkaline environments (raised bogs, sulphur-rich marshland etc.)
- landfill applications in contact with waste leachate



Bridging voids

Using Robutec® offers further distinct advantages:

- ➔ underwater installation without floating problems (PVA being denser than water)
- ➔ individual lengths can be sewn together to assist load transfer
- ➔ setting out drawings on request
- ➔ custom-made lengths to suit specific site requirements

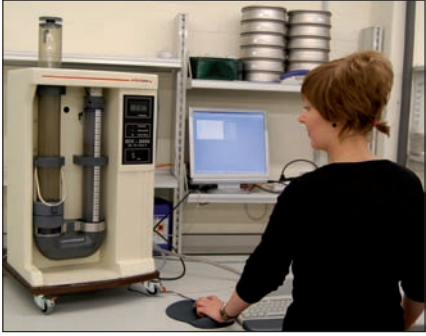
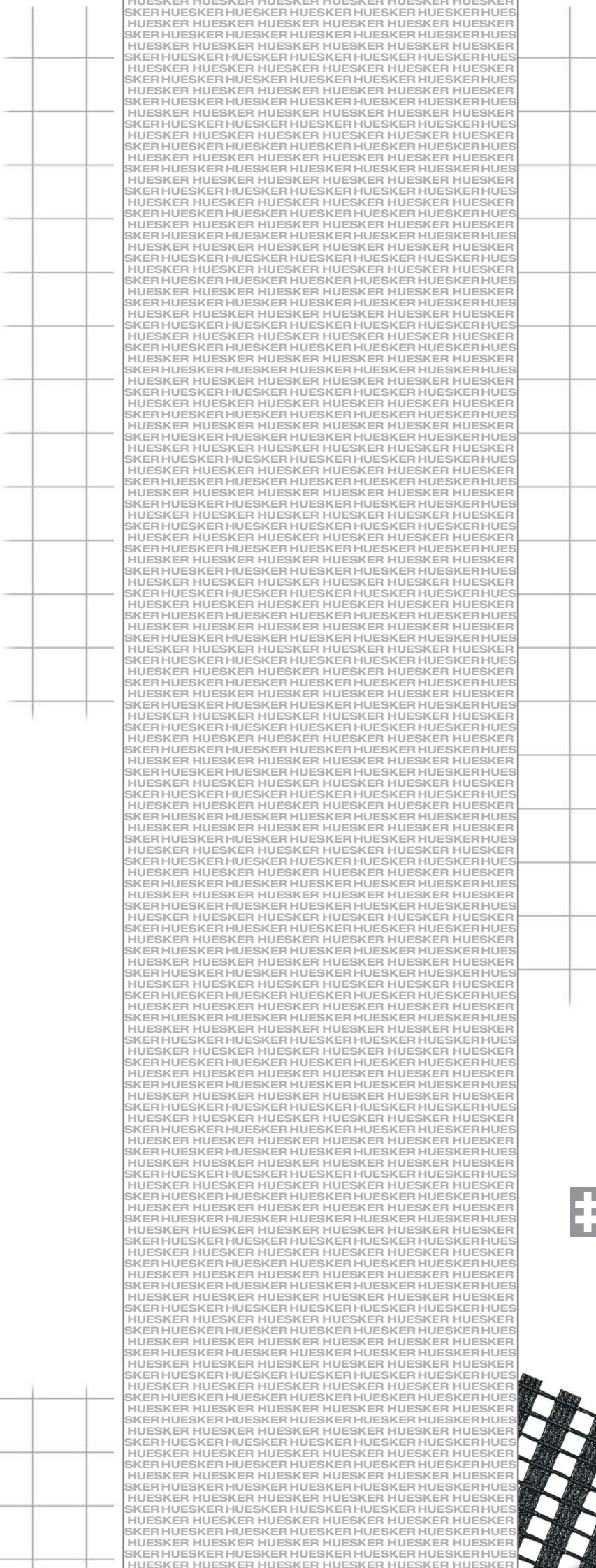
Robutec® - guaranteed quality

Robutec® is manufactured by HUESKER Synthetic. Longitudinal and transverse tensile strengths can be tailored to suit your project-specific requirements. HUESKER Synthetic would be pleased to provide you with expert advice on the choice of Robutec® fabric. Assistance with design calculations can be provided by our engineering department. In-house and third-party monitoring in accordance with DIN 18200 ensures the high quality of the product.



Capping a sludge lagoon

Robutec® is a registered trademark of HUESKER Synthetic GmbH.



HUESKER Synthetic GmbH is certified by:



HUESKER offers a wide range of technically demanding solutions relying on our many years' experience. Our solutions are economical, reliable and up-to-date and used in:

Earthworks and foundation engineering, landfill construction, hydraulic engineering, road construction

Technical assistance, planning, support - worldwide
Reliable and advanced techniques characterise our products in many applications:

- Fortrac®** - a flexible, high-modulus and low-creep geogrid for soil reinforcement
- HaTelit®** - a flexible, high-modulus and temperature resistant grid for asphalt reinforcement
- Stabilenka®** - a high-modulus polyester woven for reinforcement and separation of soils
- Robutec®** - a very high-modulus and alkali-resistant woven for reinforcement and separation of soils
- Fornit®** - a biaxial geogrid for subbase reinforcement
- Comtrac®** - a geocomposite for reinforcement, separation and filtration of soils
- Duogrid®** - a geocomposite made of biaxial high-modulus, flexible geogrid and a nonwoven
- NaBento®** - geosynthetic clay liner for sealing
- Incomat®** - a concrete- or sand-mat for sealing and erosion control
- Ringtrac®** - geotextile tube for reinforcement and soil containment
- HaTe®** - wovens and nonwovens for separation, filtration, drainage and protection
- SoilTain®** - systems for hydraulic engineering and dewatering

***Geosynthetics made by HUESKER
- reliability by experience!***



HUESKER

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