

**FUNCTIONAL TEXTILE
SOLUTIONS FOR
WATERPROOF AND
BREATHABLE FOOTWEAR**

Topaz
by trans-textil



www.trans-textil.de

Functional textile solutions



With over 45 years of experience in developing and manufacturing functional textiles, Trans-Textil GmbH – based in Freilassing, Germany – is a technological leader in the field of laminating breathable and waterproof membrane systems, and also offers coating, finishing and textile printing services.

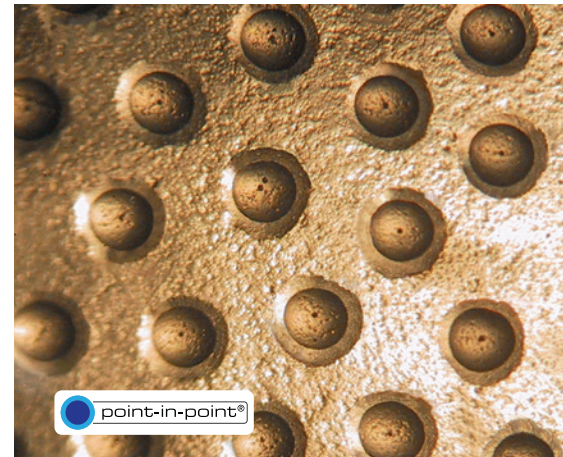
The Topaz membrane laminates are used in PPE, protective work attire or public-service uniforms, performance sportswear, reusable medical products as well as in aviation and aeronautics.

We aspire to the perfect interplay of components and processing technologies. Outer materials flexibly adapted to the specific application, breathable moisture barriers and lining materials ensure optimal protection, wellbeing and durability not only in work and safety shoes, but also in outdoor, sports and leisure products.

Leading-edge processing technology

Trans-Textil's precision Point-in-Point® technology allows accurate management of the quality-assured lamination process.

Pinpoint application of hotmelt adhesive systems means that the advanced breathability of the primary materials is retained, and also achieves optimum mechanical strengths in the end product to enable further processing and the ability to withstand day-to-day stresses.



Expertise in textiles

With our many years of experience in textile processing, we can select precisely the right raw materials for multi-layered functional laminate systems to meet technical specifications or customer requirements.



Bespoke adaptation of lining materials to the specific deployment area ensures optimal wellbeing and durability in work and safety shoes as well as in outdoor, sport and leisure products.

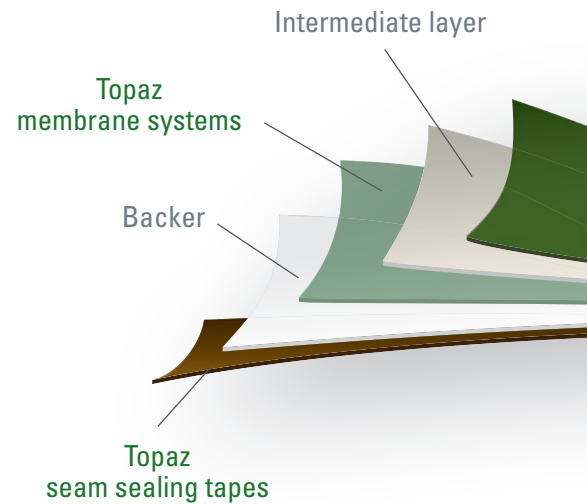
Flexible design of fibre types, weaves, weight variants and colours enhances the freedom in product realisation for optimal processing capability, abrasion-resistance and mechanical strength, as well as wearing comfort and a soft, skin-friendly surface.

Special textile solutions may be selected in addition to polyester, polyamide, natural-fibre or bio-based woven or knitted fabrics or nonwovens.

Topaz membrane systems

The breathable and waterproof air-permeable membrane is the centrepiece of all functional laminates, and Trans-Textil offers a broad portfolio of tried-and-tested moisture barriers featuring numerous in-house developments. The Topaz membrane technologies form the starting point for the development of lining laminates specifically tailored to a range of deployment scenarios:

PFAS-free*, high-tech membranes on a polyurethane (PU) or polyester (PES) basis are ideal for the design of outdoor, safety and casual shoes. ePTFE-based systems are used for the exacting performance required in the military and PSA-sector.



*Based on our current knowledge, we can confirm that no per- and polyfluorinated substances (PFAS) are intentionally used in the components of the above-mentioned article. No PFAS are intentionally introduced through our processing.

Safety and work shoes

Reliable protection and comfort in day-to-day use for waterproof and breathable safety shoes compliant with EN 20345.



**Topaz
Dura-PES**

**Topaz
Bim**

Outdoor performance

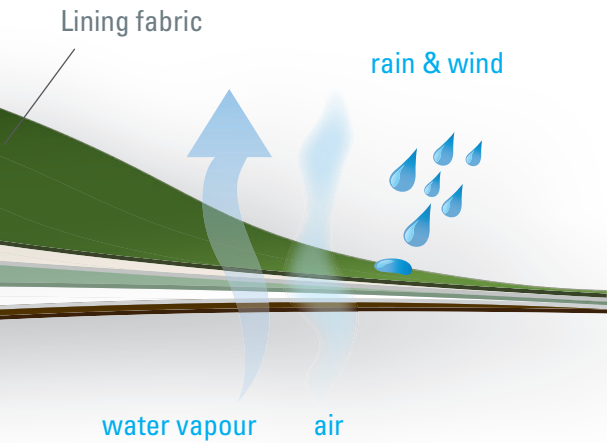
Durable and sustainable laminates for challenging outdoor activities – with the highest possible proportion of recycled or bio-based components on request.



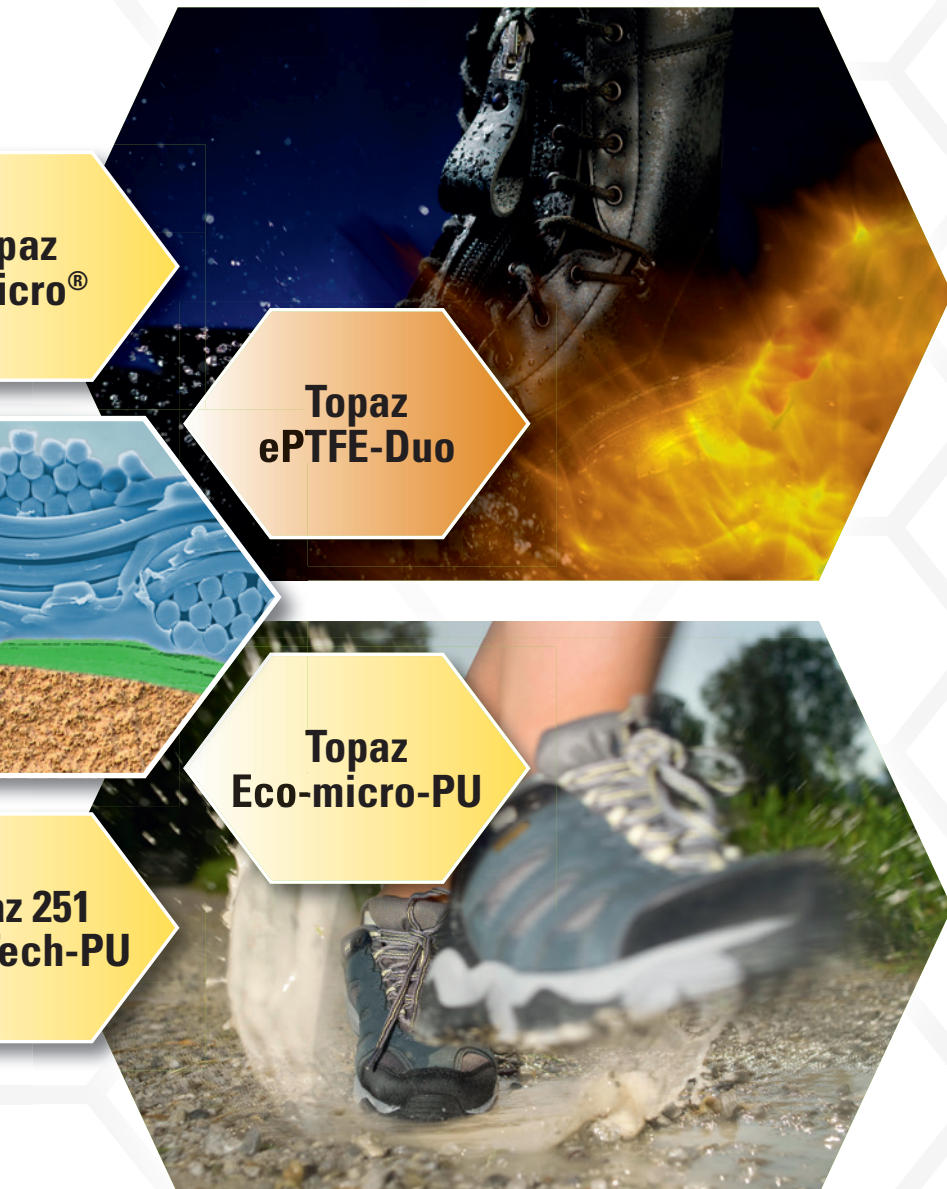
**Topaz
Micro-PU**

**Topaz
High-T**

Seam sealing



Topaz TAPES seam-sealing tapes matched with the right laminate guarantee reliable waterproofing during garment fabrication. In-house application technology is used to seal the material combinations on industrial hot-air sealing machines. Their functionality is then reviewed in the textile inspection and testing laboratory. Our technical support team will assist in implementation from development through to series samples on request.



Tactical, public-service and fire-fighter shoes

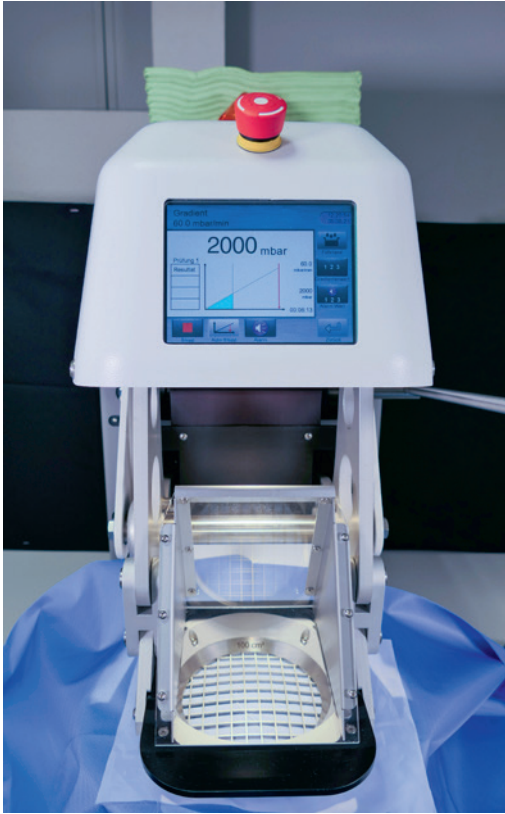
Optimal performance standard in terms of waterproofing, breathability and robustness for certified PSA and protective shoes for the public services.

Casual comfort

Weather-protection and comfort in everyday use. Microporous PU and hydrophilic PES membrane systems for optimum protection from the elements 24/7.

Proven quality – made in Germany

Certifications by independent European testing institutes attest to the high quality standard of Trans-Textil's shoe laminates. Extensive internal quality controls, an in-house inspection and testing laboratory as well as a certified management system pursuant to EN ISO 9001 and EN ISO 14001 are testament to our commitment to matters of quality, environmental protection and tolerability.



EN ISO 20345
Safety footwear
and technical
specifications

Our longstanding partners trust in this "Made in Germany" quality in the manufacture of multifunctional shoes for public services, the military, fire fighters, industry, the outdoor sector and sports.



Sustainability across the concept as a whole

Responsible product design is an explicit mission for us – be that at our Freilassing facility right next to the Berchtesgadener Land national park, in our regional supply chains and wherever our products are used.

All of Trans-Textil's functional shoe laminates and our solvent-free lamination process are tested and certified as safe from a human-ecological perspective in accordance with the latest criteria of the OEKO-TEX® STANDARD 100.

Depending on the area of deployment and technical specification, our Topaz ELEMENTS concept comprises components and technologies with expanded sustainability features:

- ▶ PFAS-free shoe laminates
- ▶ Certified recycled components
- ▶ Bio-based raw materials in all layers



STANDARD
100

97.0.8065
Hohenstein HTTI

www.oeko-tex.com



Bespoke product design

Trans-Textil's transfer printing process offers an advanced yet sustainable technology for bespoke product design. From logo printing for prominent brands through to full-colour design, the thermosublimation process offers high quality in terms of

- ▶ Colourfastness, including lightfastness and washfastness
- ▶ Abrasion resistance
- ▶ Durability
- ▶ Retention of protective effect, function, and comfort

The process is suitable for products made from polyester fibres or blends.



Trans-Textil's transfer printing process uses only natural solvents – water and alcohol – and delivers an end product with a long life cycle. Its textile printing technology is a clear leader in sustainability:

- ▶ No water consumption
- ▶ No air or water pollution
- ▶ No harmful emissions
- ▶ High-quality printing on recycled textiles



The Topaz DOTS® partial 3D coating technology offers further capabilities for realising creative ideas. Formulations on an environmentally friendly aqueous polyurethane (PU) basis provide the starting point for varied design options in terms of colours, softness, abrasion-resistance or elastic recovery.



**Textile Technology
Made in Germany**



code of conduct

 textile & fashion



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