

Press Release



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Covestro and Trans-Textil cooperate in textile coating

Breathable water-based synthetics

Great design freedom in various applications

Under the name AQUAIR® [Trans-Textil GmbH](#) is providing highly breathable coated textiles based on purely aqueous and solvent-free formula components from [Covestro](#). In a joint and exclusive development, both partners have laid the foundation for this functional product line, which also focuses on ecological aspects.

"The microporous structure of the synthetics is permeable to water vapor and provides the greatest possible comfort in combination with individually selected textiles", explains Matthias Krings, managing director of Trans-Textil. "In combination with other functional layers, products created on this basis are also characterized by their considerable freedom of design in terms of structure, coloring and technical properties."

Advantage polyurethane

"The polyurethane coating is particularly abrasion-resistant and breathable, but in combination with membrane systems from Trans-Textil it can also be made both waterproof and windproof," adds Thomas Michaelis, expert for coated textiles at Covestro. "It is built on our water-based and sustainable INSQIN® technology, which also means that the production of coated textiles requires up to 95 percent less water and 50 percent less energy than previous processes based on solvents." As a result, this [technology](#) was awarded the [Solar Impulse Efficient Solutions label](#) as an economically viable and environmentally friendly solution.

This combination of properties combined with Trans-Textil's extensive portfolio of membrane systems, textile substrates and technologies provides its customers



with a very wide range of sophisticated and individual products. Options include embossed designs in classic or exotic leather looks, textile structures or technical patterns, flexible coloring and a wide selection of textile substrates and spacer systems based on woven, knitted or non-woven fabrics, with which AQUAIR® can be combined in functional multi-layer composites.

In combination with Trans-Textil's technologies, the entirely water-based and solvent-free polyurethane dispersions of the Impranil® and Impraperm® ranges developed by Covestro enable unprecedented breathable properties with a level of comfort and functionality that far exceeds the standard of coated textiles. Water-repellent properties are already integrated into the materials meaning that no additional finishing with harmful substances such as perfluorinated and polyfluorinated compounds (PFCs) is required.

Versatile use in shoes, outdoor, leisure, sports and furniture segments

AQUAIR® can thus be used to design shoe components, leisure, sports and outdoor clothing, bags and accessories, as well as upholstery and furniture. The flexible combination with other functional layers focuses on the requirements of the application as well as the technical and design demands of the customers even for small series or samples. The production as roll material is the basis for an optimal use of material in ready-made clothing.

As a shoe component designed to enhance comfort, the high water vapor permeability of AQUAIR® contributes to the active regulation of the microclimate inside the shoe. Its breathability is preserved even in combination with a waterproof functional membrane system, which Trans-Textil also offers as an option for purely water-based products. The washable technology ensures the greatest possible freedom of movement in clothing due to its high degree of elasticity. As covers for furniture, the products not only score highly for their abrasion resistance, but also in terms of reduced perspiration in the seat and backrest areas, stain resistance and easy care. AQUAIR® can also be laminated with upholstery foams if required. This results in textile-based multi-layer systems boasting high standards in terms of performance as well as ecology.

Reliable seam sealing

In addition, both partners have also developed solvent-free seam sealing tapes for all common laminate types. Topaz tapes provide reliable impermeability and enable long-lasting use of high-quality functional textile, for example in shoe laminates, work wear, outdoor, leisure and sportswear as well as in technical garments. The tapes can be customized in terms of technical properties, dimensions and design. They are designed for industrial washing at up to 60 degrees Celsius.



About Covestro:

With sales of EUR 12.4 billion in 2019, Covestro is among the world's largest polymer companies. Business activities are focused on the manufacture of high-tech polymer materials and the development of innovative solutions for products used in many areas of daily life. The main industries served are the automotive, construction, wood processing and furniture, and electrical and electronics industries. Other sectors include sports and leisure, cosmetics, healthcare and the chemical industry itself. Covestro has 30 production sites worldwide and employs approximately 17,200 people (calculated as full-time equivalents) as of the end of 2019.

About Trans-Textil:

Trans-Textil GmbH, based in Freilassing, Germany, is a technological leader specialized in the development and manufacture of functional textiles with lamination, membrane technologies, coating, finishing and printing processes. Trans-Textil GmbH documents its commitment beyond the legal requirements by certifying its products "Made in Germany" according, among other things, to the criteria of the Oeko-Tex 100 standard, certification according to EN ISO 9001, EN ISO 14001 and OHSAS 18001 (OHRIS). The functional textiles are used in personal protective equipment, shoe components, medical and technical applications as well as in highly developed solutions for outdoor, sports and leisure wear.

Find more information at: https://www.trans-textil.de/html/home_en.html

Forward-looking statements

This press release may contain forward-looking statements based on current assumptions and forecasts made by Covestro AG. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Covestro's public reports. These reports are available at www.covestro.com. The company assumes no liability whatsoever to update these forward-looking statements or to make them conform to future events or developments.