

TC
Repel
Pro

Ecological
Water & Dirt
Repellence

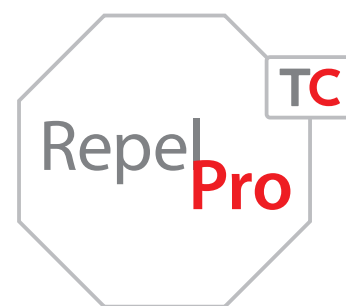


Further information about the safe use of the product can be found on our Safety Data Sheet!

The recommendations and information about our products given here in words and writing are based on extensive research work and represent our current experience in the textile finishing business. They are non-binding – including with regard to the intellectual property rights of third parties and foreign laws – and do not exempt users from testing the product and process themselves for suitability for their purposes. In particular we do not accept any liability for any purposes not expressly mentioned by us in writing. We reserve the right to make technical changes in the course of new product development. In the event of damage please refer to our General Terms and Conditions of Sales and Delivery, Item 7.



Ecological Water & Dirt Repellence



The environmentally friendly RepelPro water and dirt repellent technology from Textilcolor is PFC-free and protects you in any weather.



WATER REPELLENT



MUD REPELLENT

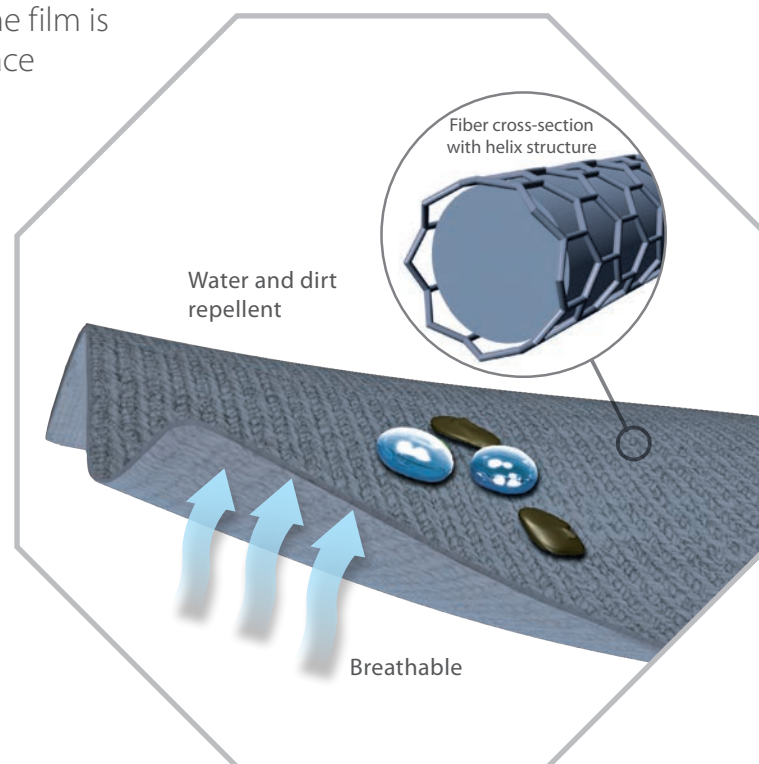


BREATHABLE



ECOLOGICAL

- RepelPro forms a very thin film spirally applied around each individual fiber and is bonded to the fiber via a sophisticated docking system
- The honeycomb-like structure of the film is arranged uniformly across the surface
- This reduces the surface tension, causing water droplets and aqueous dirt with higher surface tension to simply roll off



Sustainability

RepelPro is free from fluorocarbons and PFCs and therefore free from PFOA and PFOS. It is highly water and dirt repellent without any fluorochemical components. The technology is biodegradable in accordance with OECD 302 B (80 – 100 %) and passes OEKO-TEX® Standard 100. With exclusively bluesign® approved components, RepelPro production minimizes the impact on humans and the environment.



Performance Testing

A

RepelPro guarantees optimum quality and ensures that textiles finished with RepelPro meet the determined test requirements. Services include individual adjustment of the recipes and technical support for the mills. In our laboratory, each production batch is subjected to Spray Test AATCC 22 in order to assure the quality and durability of RepelPro.

| Water spraytest on outer side (Spray test AATCC 22-1996/ISO 4920) | original | washed (5 wash cycles 40° C 7A LTD) |
|--|----------|--|
| Assessment/Minimum requirements | 90 – 100 | 90 – 100 |

The RepelPro finish can be optimized in order to pass the Raintest AATCC Test Method 35-2006.*

*As the functionality depends on the material and the fabric construction, preliminary tests in cooperation with Textilcolor AG are recommended.

B

Abrasion resistance and durability

Internal tests show excellent abrasion resistance results in a variety of fiber types with RepelPro. In the case of fabrics made of polyamide/elastane, a spray value of 100 (AATCC 22-1996/ISO 4920) was still attained after 10 washes and 10,000 abrasion cycles. Textiles made of polyester showed a constant value of 95 after 10 washes and 10,000 abrasion cycles. The longlasting performance of RepelPro stands out particularly well against other durable water repellents (DWR).

FIG1: Spray test on polyamide/elastane after washing & abrasion

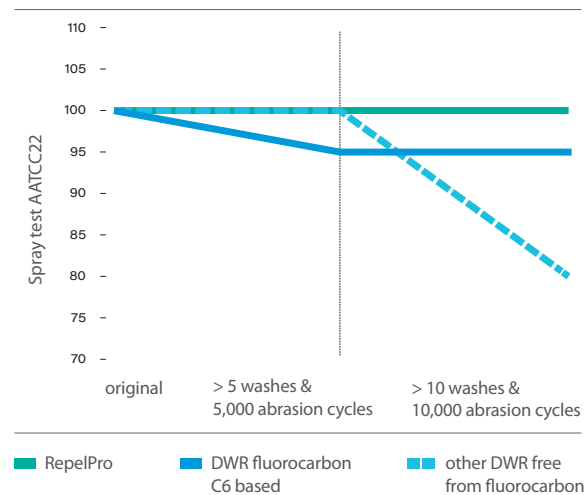


FIG2: Spray test on polyester after washing and abrasion

