



PFAS-Free Durable Water Repellent

PalmProof® is a family of bio-based, fluorine-free water repellent treatments derived from palm oil. This innovative solution is designed to form a long-lasting, water repellent barrier on fabric surfaces by utilizing biomimetic hydrophobic technology. By reducing surface energy, it effectively prevents water absorption without the use of harmful PFAS chemicals.

PalmProof® comes in two variations: PalmProof® BioWR-563 with 54% bio-based content and PalmProof® BioWR-710 with 76% bio-based content. These options support sustainability by leveraging renewable resources, efficient manufacturing practices, and fostering a low carbon circular economy. Additionally, it is biodegradable, providing exceptional water repellency while minimizing environmental impact. PalmProof® is suitable for both padding and exhaust application processes, making it a versatile solution that performs on existing manufacturing processes and equipment. For more information, please consult the Technical Data Sheet.

PalmProof® Technology Benefits

Excellent water repellency for cotton, synthetics, and blends

Offers superior protection from rain and water-based stains

Retains water repellency through excellent wash durability

Maintains fabric breathability, for a comfortable experience

Optimal runnability, allowing for uninterrupted production

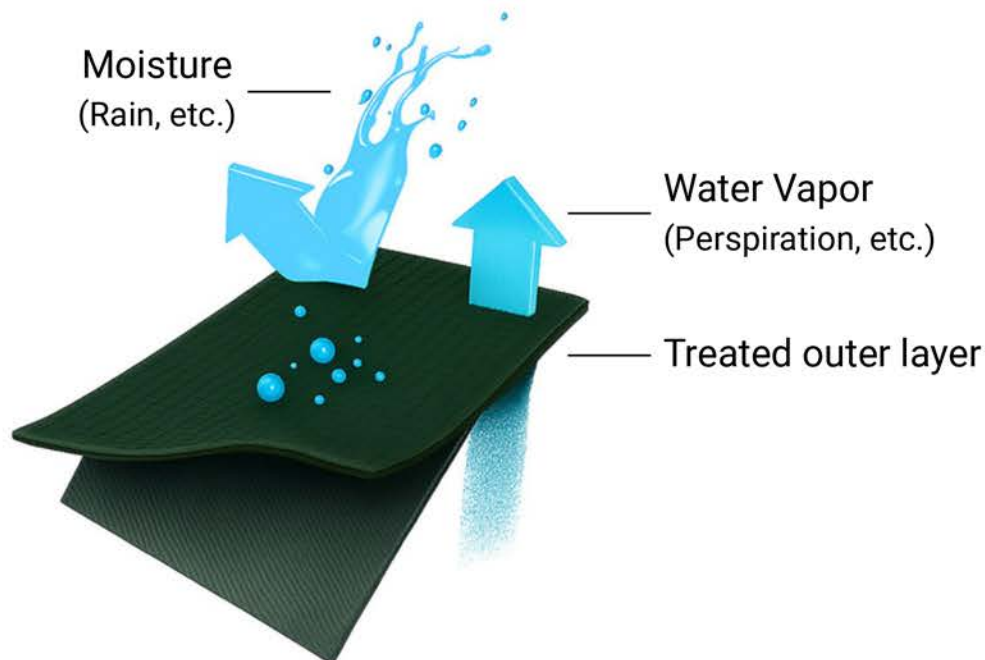
Compatible with commonly used finishing auxiliaries, including resins and cross-linking agents

Contains 76% bio-based content per ASTM method 6866

Certified bio-based technologies per USDA BioPreferred Program

Are non-fluorinated technologies





How It Works

PalmProof® works by forming a biomimetic hydrophobic barrier on the fabric's surface, reducing surface energy to repel water effectively. Derived from palm oil, it creates a durable, water repellent coating without using PFAS chemicals. The technology bonds to the textile fibers, ensuring long-lasting water resistance while maintaining the fabric's breathability, softness, and other qualities.

How To Verify Performance

Validated through standardized testing methods.

AATCC TM22: Measures the water repellency of textile fabrics by evaluating how well they resist wetting when subjected to an impact of water droplets.

Marketing Support

Products treated with a PalmProof® technology and validated to meet performance requirements, are eligible to utilize our PalmProof® branded marketing materials.

Our in-house marketing team is available to provide support with brand positioning, claims language, and Point-Of-Sale materials such as custom hangtags.

