

# TECHWASH-IN

Wash-in water-repellent treatment for technical fabrics



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**MAPLUS<sup>®</sup>**

🔄 DWR RESTORATION

🌿 FLUORINE-FREE

# Advanced Protection for Technical Garments

TECHWASH-IN is a sophisticated wash-in water-repellent treatment specifically engineered for the restoration and regeneration of DWR (Durable Water Repellent) finishes on technical garments. Designed for use in both industrial and domestic washing machines, it delivers outstanding performance whilst maintaining fabric breathability. The advanced formulation restores protective properties to technical outdoor wear, work clothing, and performance sportswear, extending garment life and maintaining functionality.



Expertise & Heritage

# Who Stands Behind TECHWASH-IN



## Maplus Technical Brand

TECHWASH-IN is developed by Maplus, the technical division renowned for high-performance ski wax and outdoor sports treatments.



## Maflon Chemical Expertise

Backed by Maflon, a specialist manufacturer in the formulation and production of water and oil-repellent treatments for textiles.



## Proven Excellence

Decades of experience in textile chemistry guarantee solutions that deliver exceptional performance, safety, and environmental responsibility.

# Formulation Technology

TECHWASH-IN employs cutting-edge chemistry to deliver superior water repellency whilst meeting the highest environmental and safety standards.



## Modified Polysiloxane Dispersion

Aqueous dispersion of modified polysiloxanes ensures excellent affinity with synthetic fibres, providing uniform and long-lasting treatment.



## Cationic Ionic Nature

Cationic formulation enhances bonding to fibre surfaces, maximising treatment durability and wash resistance.



## Fluorine-Free Formula

Advanced siloxane technology eliminates the need for fluorinated compounds, meeting strict environmental regulations.



## APEO-Free & Non-Flammable

Free from alkylphenol ethoxylates and non-flammable for safe handling and application in any facility.

# Compatible Fabric Systems

## Synthetic Fibres

- Polyester
- Polyamide (Nylon)
- Technical synthetic fabrics
- Synthetic/cellulosic blends

## Technical Membranes

Fully compatible with leading membrane technologies including Gore-Tex®, Sympatex®, Primaloft®, Wind-Tex®, and equivalent laminated systems.

# Principal Benefits



## Superior Water Repellency

Exceptional DWR performance causes water to bead and roll off fabric surfaces



## Aqueous Soil Resistance

Enhanced protection against water-based dirt and staining



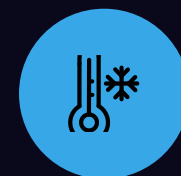
## Breathability Maintained

Preserves essential moisture vapour transmission properties



## Natural Hand Feel

Does not compromise comfort, softness, or garment handle



## Ambient Temperature Performance

Full effectiveness achieved at room temperature without thermal activation

# Advantages Over Traditional Treatments



## Simple Wash-In Application

No specialised equipment or complex processes required



## No Thermal Processing

Eliminates energy-intensive heat curing or tumble drying steps



## No Additional Rinsing

Single-step process reduces water consumption and cycle time



## Garment Regeneration

Perfect for restoring protection to previously worn garments

# Application Method – Washing Machine



## Pre-Wash Garment

Wash the garment following manufacturer's care instructions using neutral or technical detergent. Do not use fabric softeners or conditioners.



## Skip Additional Rinse

Do not perform any further rinsing. Allow the treatment to remain on the fabric.



## Apply Treatment

Run a final rinse cycle adding **100g of TECHWASH-IN per garment** to the detergent drawer or drum.



## Air Dry

Hang or lay flat to dry at ambient temperature. Optionally heat source or tumble drying.

# Technical Application Parameters

**100g**

## Dosage Per Garment

Precisely formulated concentration for optimal performance

**30°C**

## Treatment Temperature

Effective at low temperature for energy savings

**20min**

## Cycle Duration

Short treatment time maximises efficiency

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## Application Methods

Suitable for industrial washing machines, domestic washing machines, and manual hand-washing applications. Versatile formulation adapts to various processing environments and scales.



# Safety & Sustainability



## Non-Toxic Formulation

Contains no toxic or harmful substances, ensuring safety throughout the supply chain



## OEKO-TEX® Standard 100 Certified

Independently tested and certified for textile safety and consumer protection



## Operator & Consumer Safe

Safe for textile processors, garment manufacturers, and end users alike



## Environmentally Compliant

Meets modern environmental requirements and sustainability standards

# TECHWASH-IN RWD **72% Bio-based Version**



## **Non-Toxic Formulation**

Bio-based formulation, maintaining the same technical performance as the standard product.



## **Heat fixing**

We recommend drying at a minimum temperature of 45°C.



## **Operator & Consumer Safe**

Safe for textile processors, garment manufacturers, and end users alike



## **Environmentally Compliant**

It is designed for brands and collections requiring a greater focus on sustainability and reduced environmental impact.

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