

*More than a **membrane.***

We are Sympatex:

Over 35 years in business with a PFAS-free membrane made in the EU
Over 15 years field experience with CO DWR (Durable Water Repellent)

WE COVER THE COMPLETE FUNCTIONAL TEXTILE RANGE

Our **business units**



Apparel

Snow • Outdoor • Accessories
Hiking • Running • Lifestyle
Motorbike • Fashion



Footwear

Kids • City • Outdoor • Bike
Hiking • Trail Running
Motorbike



Workwear (Apparel & Footwear)

Multifunctional Workwear • Work & Safety
Contract & Workwear • Ambulances
Police • Military • Firefighters • Medical
Services

The Double PFAS Challenge

We can provide the full study on PTFE (2021):

THE USE OF PTFE IN THE CLOTHING AND FOOTWEAR INDUSTRY IS HARMFUL TO THE ENVIRONMENT AND HEALTH - AND THANKS TO EXISTING ALTERNATIVES, NOT ESSENTIAL

A scientific opinion on the European Green Deal target "Transforming the EU's economy for a sustainable future: A zero pollution ambition for a toxic-free environment",

with a focus on the PFAS group of substances under the EU Chemical Strategy for Sustainability, the EU Sustainable Product Initiative as well as the climate goals of the Paris Agreement.

Date: April 2021

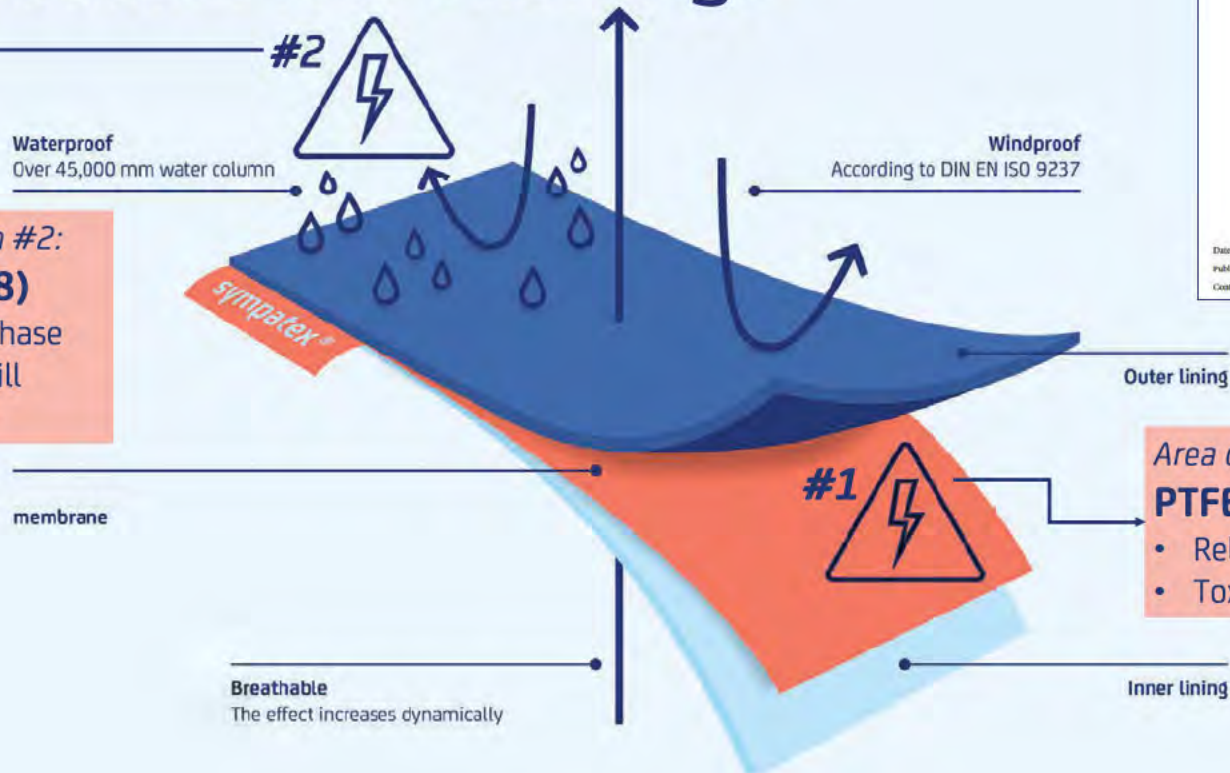
Publisher: Chemicals Working Group, Sympatex Technology GmbH

Contact: cor@sympatex.com

Area of PFAS application #2:

C6 DWR (former C8)

- Release during use phase
- Release during landfill
- Toxic in incineration

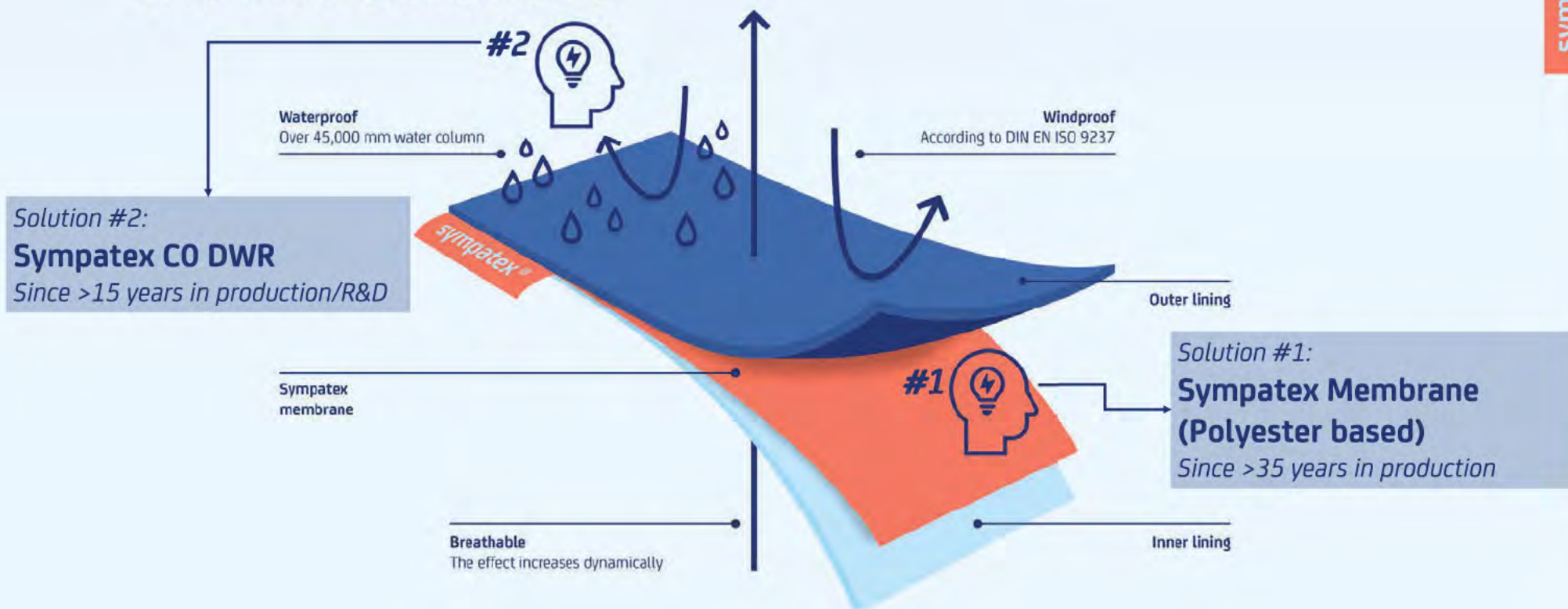


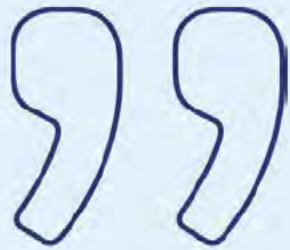
Area of PFAS application #1:

PTFE Membranes

- Release during production
- Toxic in incineration

The two Solutions





There is no justification for Forever Chemicals if the worst case scenario is that someone might get wet or some outdoor or workwear gear might have traces of stains.

PFAS FREE LEISURE TEXTILES SHOULD BE THE “LICENSE TO OPERATE” INSTANTLY

OUR VALUED

Brandpartners in Apparel



AYAQ ✱



ECOALF

ELKLINE



LYNX

MAAP

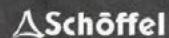


Pedal Mafia

OCHSNER
SPORT



ROTAUF



ski-doo

TEMPLA



● Universal
● Colours



OUR VALUED

Brandpartners in Footwear

ANDREW

ARMOND
MADE IN ITALY

BOREAL

DIEMME

EUROSKO

Grisport
A WORLD TO DISCOVER

GRONELL
International Footwear Group
MADE IN ITALY

JACALU

loMer

Lurchi

MBT
47 Swiss Physiological Footwear

Mondeox
THE SHOE FACTORY

MONTE
SPORT

Norvini

OCHSNER
SPORT

O'THREE

PIKOLINOS

Richter
1893

RICOSTA
Kinderschuh

SANMARCO

superfit

ziben

THE CENTER OF THE DISCUSSION

Personal Protective Equipment (PPE)



Workwear (PPE)

We fully support the Dossier Submitters approach:

- Strongly limiting PPE derogations where essential **for the use case***

*** Not any Over-Specifications**

MINIMIZING EXCEPTIONS IS POSSIBLE

Avoidable for most use cases in PPE (if not over-specified)

We can provide the full study on PPE (2023):

“PFAS Restriction process according to REACH

*Fluorine-free solutions for personal
protective equipment”*

Requirement	Standard	Applies to	PFAS-relevance
UV-resistance	ISO 105 – B02 EN 20105 -B01	Upper fabric, DWR	No significant difference
UV-resistance	ISO 105-B02 EN 20105-B01	Membrane	Differences are solvable
Water repellence	ISO 4920 EN 24920	DWR	No significant difference
waterproof (rain tower test)	EN 14360	Overall structure	No significant difference
Waterproof (new)	ISO 811 EN 20811	Membrane	No significant difference
Waterproof after 10x washing	ISO 6330 ISO 15797 EN 26330	Membrane	No significant / except for ISO
Waterproof after cleaning	ISO 3175-2	Membrane	No significant
Waterproof after abrasion	EN 530	Membrane	No significant
Waterproof after bending	DIN 53359 EN 7854	Membrane	No significant
Waterproof after contact to oil and fuel	ISO 1817 EN ISO 7854	Membrane	No significant
Waterproof after hydrolysis	DIN 53896	Membrane	Minor differen
Windproof	ISO 9237	Membrane	No significant
Fastness properties*	ISO 105	Upper fabric	No significant
Waterproof after weathering	ISO 4892-2 EN 12280-3	Membrane	Differences are
Water vapour transmission resistance	ISO 11092 EN 31092	Membrane/ Overall structure	Differences are solvable

Areas of further R&D / Spec. Adjustment:

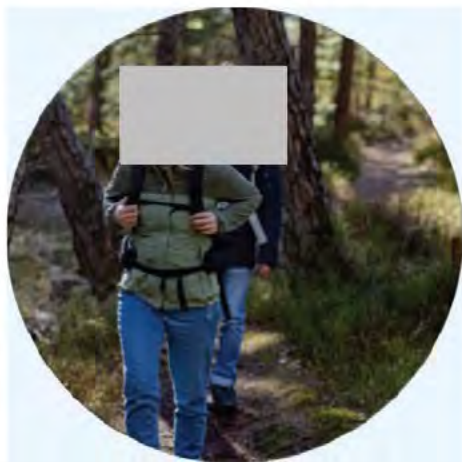
Requirement	Standard	Applies to
Oil repellence	EN ISO 14419	DWR
Chemical repellence/resistance*	ISO 6530	DWR/Membrane
Waterproof after contact to seawater	following ISO 1817	Membrane
Cold bending resistance	DIN 53359	Membrane
Thermal resistance	EN 469 ISO 17493	Membrane/ overall structure
Limited flame spread	ISO 15025 EN 13274 EN 14325	Membrane/ overall structure
Tensile strength after exposure to heat	EN 469	Upper fabric
Waterproof after exposure to heat	ISO 17493	Membrane
Protection against heat and flames	ISO 11612	overall structure, since several tests

OUR VALUED

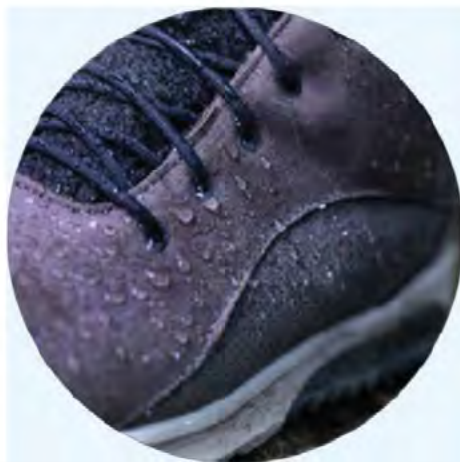
Brandpartners in Workwear



Our Core Principles



Accelerate Innovation
“Constraints might challenge creativity, but they accelerate innovation”



Good Enough
“We aim to meet the real needs and will not join the Vortex of Higher-Faster-Further”



Extended Responsibility
“There is a transgenerational responsibility throughout the lifecycle of our products”



Sympatex – **We call for a comprehensive EU-ban of PFAS in Textiles/Footwear with strongly limited* derogations for selective PPE** - and are fully prepared to serve this market.

**Proven essential use/not over-specified with no alternatives available*