

# HELLY TECH®

# WATERPROOF. BREATHABLE. GUARANTEED.



Helly Tech® is constructed with Polymer Polyurethane (PU) based membranes and coating technologies. The PU membrane gives softness and stretch to the fabric, while the coating allows waterproofness and breathable qualities.

Helly Tech® is made either with Hydrophilic barrier membranes or Micro-porous membranes, depending on the end-use purpose of the fabric.

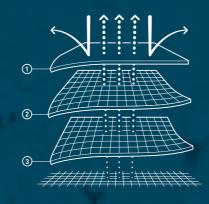


The Hydrophilic barrier works on an osmotic principle, keeping salts from entering and blocking the pores. The Micro-porous PU membranes are hydrophobic- "water hating" polymers. This membrane construction is responsible for the waterproofness of Helly Tech®, making the pores up to 20.000 times smaller than water droplets, while allowing breathability since the pores are up to 700 times larger than a water vapor molecule, allowing the evaporation of sweat and heat.



Helly Tech® is actually more than just a fabric – it is a combination of a DWR-treated outer fabric, a highly breathable and waterproof membrane, fully sealed seams and often a highly breathable inner fabric, mesh or lining.

The seams of the products are taped over with a waterproof ribbon and glue, preventing any water from entering the small gaps between the stitches of the seams



## HOW HELLY TECH® WORKS

- 1. DWR treated outer fabric is windproof and water-repellent
- 2. Waterproof and breathable membrane or coating
- 3. Highly breathable inner fabric, mesh or lining





Extremely waterproof and breathable designs and constructions. For highly aerobic, extremely wet or unusually long-lasting activities in extremely harsh conditions.



Highly waterproof and extra breathable sport specific designs and constructions. For a wide range of high performance outdoor activities during highly challenging, changing and unpredictable weather conditions.



Fully waterproof, windproof and breathable fabrics and constructions.

For all situations and weather conditions where protection from the elements is needed.





#### 3 PLYCONSTRUCTION

Outer fabric + membrane and inner fabric bonded together for lightweight, quick drying and durability.



### 2,5 PLYCONSTRUCTION

Outer fabric + membrane or coating bonded together with protective print on the inside for extreme lightweight and packability



#### 2 PLYCONSTRUCTION

Outer fabric + membrane or coating bonded together for breathable waterproofness, protected by inside lining or mesh adding warmth and comfort





