FABRIC TECHNOLOGY eVENT®

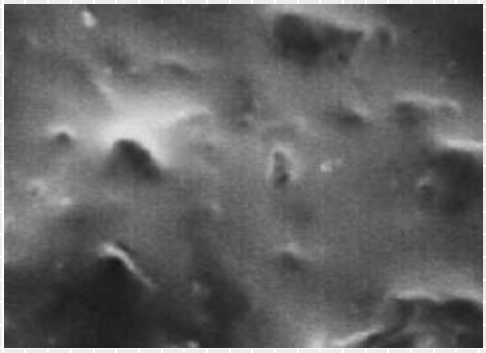
VENTING **BEATS "BREATHING"**

eVENT® waterproof technology provides maximum comfort for activity in harsh environments and keeps footwear DRY INSIDE™ by venting perspiration vapour through millions of unimpeded microscopic pores engineered into a durable waterproof membrane.

Other breathable fabrics function by an indirect and slow process of absorption and evaporation. They contain a solid barrier of polyurethane that inhibits the passage of perspiration vapour.

Only eVENT® technology offers Direct Venting™. There are microscopic vents engineered into the fabric, which allow unhindered passage of perspiration vapour. This avoids the moisture retention and breathability inhibiting effects of polyurethane, and noticeably reduces the uncomfortable build up of moisture in the microclimate between the body and the eVENT® membrane.

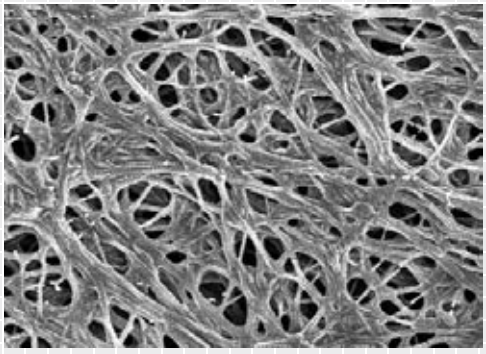
Conventional Waterproof Membrane



Other waterproof fabrics contain a solid barrier that slows the passage of perspiration.

Conventional waterproof "breathable" fabrics try to move moisture through a solid barrier, usually polyurethane. Though the amount of perspiration that escapes the fabric can be measured in a laboratory, its benefit is seldom noticed during actual use.

eVENT® Waterproof Membrane



eVENT® membrane contains millions of microscopic vents

5000x magnification shows the microscopic vents that provide eVENT® technology's unmatched performance. Water from the outside cannot enter but perspiration vapour escapes through millions of unimpeded microscopic vents. This unique method of function keeps users noticeably drier.

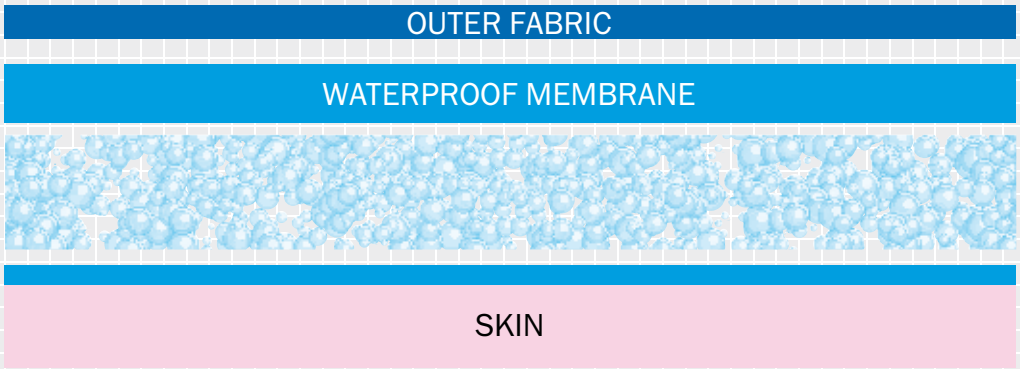
HOW DOES eVENT® WORK?

eVENT Membrane

Perspiration vapour travels directly through the eVENT® membrane's microscopic vents. No moisture is held in the membrane, so the fabric layers and the microclimate beneath remain DRY INSIDE™.

Conventional Membrane

Perspiration vapour from the body condenses on the waterproof, breathable membrane. Once enough moisture is built up it is absorbed into the layer of PU. When enough body heat is developed, the moisture evaporates from this layer and passes through the outer fabric. BUT by this time the fabric layers are already WET INSIDE, meaning the skin is not kept dry.



Direct Venting
(Unique method of breathability)

+

Dry System Technology
(Membrane does not retain moisture during use)

= DRY INSIDE
(Microclimate avoids moisture buildup)