



## BIOVATION'S DRYRIGHT™ TACTICAL BOOT DRYING PRODUCT

Biovation's DryRight™ Tactical Boot Drying Product was funded, developed and tested in collaboration with the United States Marine Corps to help keep Marines performing at their best. The foot health of Marines during training and deployment is one of the primary medical concerns for the force. The lack of proper foot care is a significant contributor to lost combat readiness and keeping boots dry is a basic requirement for the health of the feet.

DryRight™ provides the warfighter, hunter, fisherman or outdoorsman with a product that helps sustain an optimum micro-environment around the foot that is critical to pinnacle performance and long-term comfort. The microenvironment is one of maximum boot dryness in all foot contact areas, (toe, heel, top and sides of the foot), independent of climate and weather conditions and accomplished within 6 to 8 hours. The elimination of wetness in boots, results in reduction of foot blisters and wet socks. Biovation has used its expertise in advanced polymers, non-wovens, super absorbents and multi-component biochemical formulations to create a product that addresses these concerns. DryRight™ has applications in a wide variety of end uses in both the commercial and military markets.

DryRight™ is extremely easy to use. Roll up the product, stuff into the boot all the way to the toe area and then push into the heel area. It does not need to be wringed out or washed.

DryRight™ provides lightweight, portable, and active quick drying performance. It reduces boot odor by absorbing odor within the boot and helps to mitigate fungal and bacterial propagation on the DryRight™ product. The DryRight™ product is lightweight, highly portable and can be re-used up to 10 to 15 times with "recharging" (air drying). The product is manufactured with greater than 50% bio-content biopolymer materials and is non-hazardous.

DryRight™ is expected to be fielded to the United States Marine Corps in 2015. The development of DryRight™ would not have been possible without the support of Marine Corps Systems Command in Quantico, Virginia.



### DryRight™ Product Overview

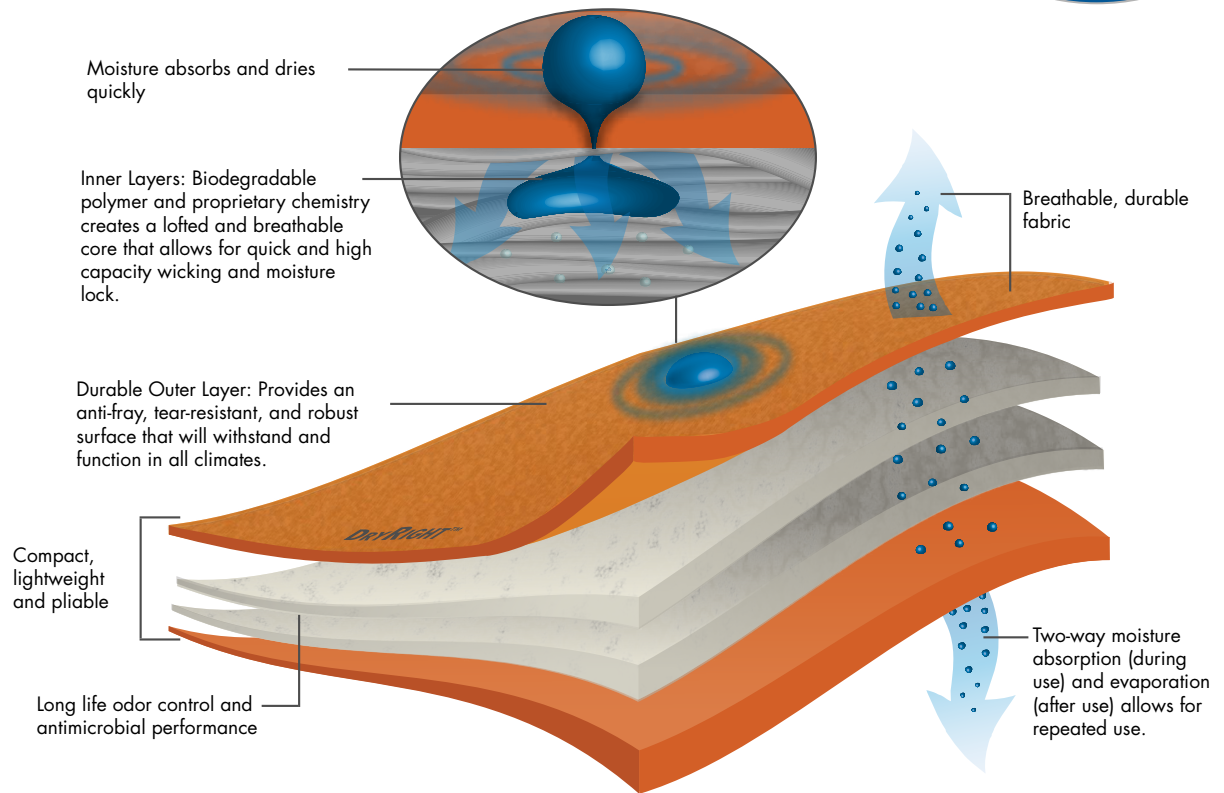
- Active tactical drying tool that provides performance in any environment.
- Easy to use.
- Dries boots 8 times faster than air drying.
- Small, lightweight and packable.
- Re-useable and effective for a minimum of 5 drying cycles.
- Anti-microbial and anti-fungal – Completely eliminates boot odor and mitigates fungal and bacterial pathogens on the DryRight™ itself.
- Biodegradable and non-hazardous.
- One size fits all.
- Does not need to be washed.
- Made in USA and Berry-compliant.



## HOW DOES IT WORK?

Footwear creates a microclimate around the foot. Combined with outside conditions (rain, muddy or brackish water, etc.) and sweat generated from the user, the microclimate may become wet, hot and sweaty after use—the speed at which this happens is dependent on the footwear and environmental conditions. Over time, these conditions create an unhealthy environment that encourages the growth of odor-causing fungus and bacterial organisms. This can lead

to serious foot health issues that limit the ability of the user to perform. Drying of the boot destroys this microclimate and creates a healthier environment for the foot, as well as a more comfortable user.



- 1 DryRight™ provides active drying of footwear by combining highly breathable fabrics with super absorbent polymers that are integrated to biodegradable non-woven sheets. These patented material combinations have proven to be effective in USMC field and laboratory testing.
- 2 The outer fabric layer of DryRight™ has a raised surface that provides multiple touch points that accelerates the absorbent action.
- 3 The superabsorbent polymers that are incorporated in the product structure grab and hold up to 50%-100% of their weight in liquid. The product structure “re-charges” itself over an 8-hour air exposure period.

- 4 The non-woven sheet material contains integrated carbon and non-leaching ionic metal based antimicrobial and anti-fungal technology which act to reduce odor, fungal and bacterial influxes on the DryRight™ product itself.
- 5 DryRight™ product is manufactured for robust, repeatable and reliable use.
- 6 DryRight™ is proudly manufactured in the USA of 100% American-made materials.

This results in the ability to use the product 10 to 15 times before full saturation is reached.

