

uvex Bicycle Helmets & Rider Comfort

Challenge

uvex was looking to improve rider comfort and differentiate their uvex Ultimate Surge Carbon Mips® helmets from competitive helmets that have traditionally relied on polyurethane foam for internal cushioning. Traditional padding is often made from polyurethane foams that tend to make the user feel hot and pool sweat by the skin, making the wearer feel uncomfortable. The uvex team partnered with L&L Products to help engineer an innovative helmet lining to enhance rider comfort.

Solution

The team decided to construct the interior padding using the CCubed® high performance fiber-based cushioning system. This material outperforms traditional polyurethane foam in moisture management and breathability while maintaining resiliency.

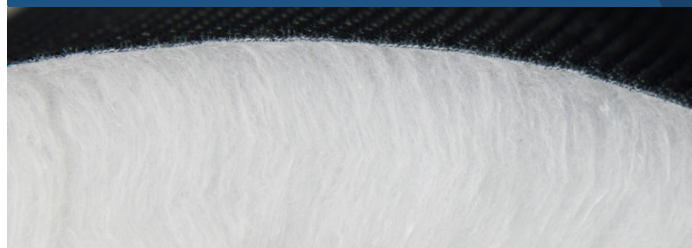
The CCubed® system is engineered to deliver evaporative cooling during intense riding conditions. Unlike traditional PU or EVA foams that insulate heat, the CCubed® structure:

- Delivers both airflow and resiliency
- Provides cushioning, allows heat to escape, wicks sweat away from the skin, and creates an evaporative cooling effect
- Produces a measurable cooling effect of up to 2°C in this application, according to uvex testing

Results

The uvex helmet with CCubed® cooling effect technology won the Innovation Award at the Bike Festival Riva del Garda 2026, one of Europe's most influential cycling events.

A high caliber jury spent more than two days testing, evaluating, and comparing products before selecting the winners across three categories: Gravel, Sustainability, and Innovation.



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