



UNIVERSAL
TEXTILE TECHNOLOGIES



Enviro**CEL**[™]
POLYURETHANE CARPET BACKING

Performance Backing Systems

Products

Strength, flexibility, and ease of installation make BioCel and EnviroCel the efficient, effective choices for your needs. Resilient by design, the polyurethane backing on our products protects against moisture and helps to keep spills and stains from reaching the sub-floor. This cuts the risk of damage and minimizes the risk of odor and stains. Each of our products is designed to withstand repeated wet cleanings, allowing for easy maintenance as well as protection against daily wear and tear.

Product Attributes	EnviroCel™ Laminate Plus	EnviroCel™ Cushion Plus	BioCel™ Laminate Plus	BioCel™ PAB-3 & Premier Plus*	BioCel™ LXT-18 & LXF-24	BioCel™ PFAB-3 Attached Cushion
Recycled PET Secondary Backing	✓	✓	✓	✓	✓	✓
Bio-Based Polyurethane Cushion		✓		✓	✓	✓
Moisture Resistant	✓	✓	✓	✓	✓	✓
Functional Liquid Barrier			✓	✓		✓
Tuft Bind Not Adversely Affected by Moisture	✓	✓	✓	✓		✓
Great Lamination Strength	✓	✓	✓	✓		✓
Low VOC Rating	✓	✓	✓	✓	✓	✓
Reduces Muscle Fatigue		✓		✓	✓	✓
Sound Insulating Properties		✓			✓	✓
Increased Appearance Retention	✓	✓	✓	✓	✓	✓
Thermal Insulating		✓			✓	✓
Fully Recyclable	✓	✓	✓	✓	✓	✓
Incorporates Extruded Fiberization	✓		✓			
Direct Glue Installation	✓	✓	✓	✓	✓	✓

**Straight stitch products only*

Quality From the Inside Out

It's a fact – when it comes to the performance of your floors, what you don't see is just as important as what you do. The backing on a piece of carpet or synthetic turf actually affects the life and durability of its entire surface. In addition to offering a wide array of backing options, Universal Textile Technologies has developed two trademarked backing systems, BioCel™ and EnviroCel™, which stand up strong under a wide range of conditions.

EnviroCel is a moisture-resistant backing specifically designed for environments with foot traffic, such as hotel rooms, specialty shops, restaurants, apartments, and landscape applications that use synthetic turf. For higher-traffic environments, BioCel provides a moisture barrier that performs well in corporate environments and public areas, including department stores, convention centers, public buildings, and sports facilities.

Sustainably Superior

Environmental sustainability is no longer a luxury – it is a necessary component in all of our products. BioCel and EnviroCel were developed to reduce our carbon footprint and replace old industry standards with a more sustainable alternative. Together, these two highly efficient backing technologies extend the life of our products while saving money and resources, making it easy on the environment—and your bottom line. Long-lasting, low-impact products ensure a better future for everyone.

Natural Solutions

- Uses bio-based polyols derived from renewable natural oils to replace a percentage of the petroleum-based polymers used in our manufacturing process
- Incorporates renewable resources, post-consumer and recovered materials
- Reduces our dependency on foreign oil by decreasing the use of imported petroleum-based products, helping to support American farmers including those overseen by the farmer-led United Soybean Board
- Reduces our use of fossil fuels in manufacturing

Stabilizing Technology

- Contains a highly refined mineral compound recycled from previously mined calcium
- Provides improved polyurethane backing, performance, and stability

Breathe Easier

- Contains low VOC levels, improving air quality
- Allows installation using the lowest-possible VOC adhesives

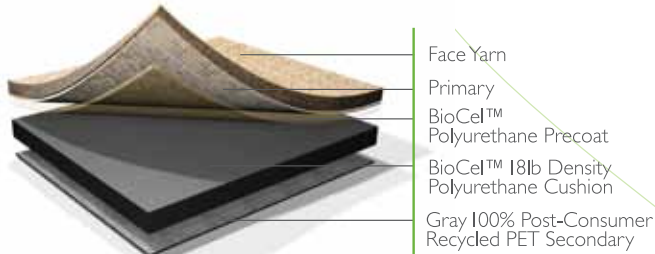
Recycled Content

- Uses PET from plastic drink bottles to make up a high percentage of recycled content in most UTT backing products

Smaller Environmental Footprint

- Manufactured with materials including recycled, renewable and recovered resources, enabling the entire product to be recycled when replaced
- Provides extended product life, meaning replacement less often, with lesser amounts of carpet and turf placed in landfills
- Saves money and reduces environmental impact due to less time and fewer resources required for manufacturing and maintenance.

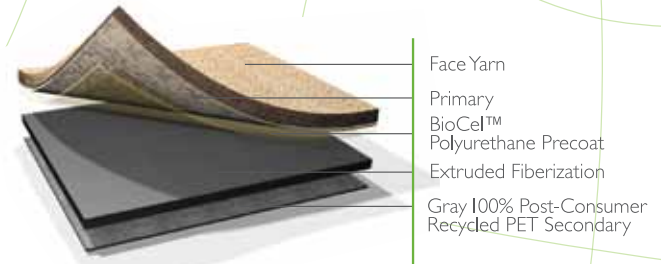
BioCel PFAB-3



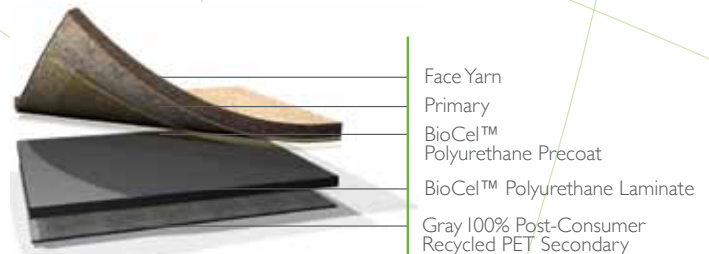
BioCel LXT-18 & LXF-24



BioCel Laminate Plus



BioCel PAB-3 & Premier Plus*

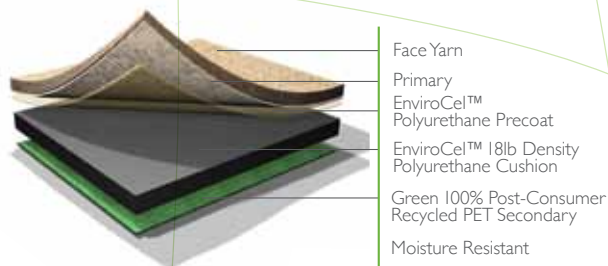


*BioCel Premier Plus can be applied to straight stitch products only.

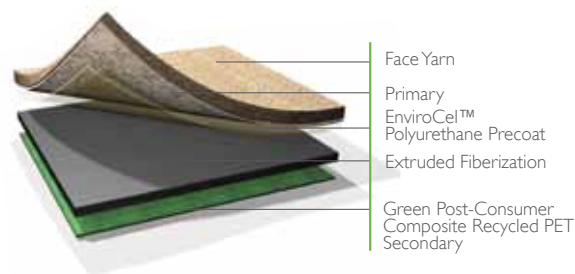
The BioCel LXT-18 and LXF-24 processes allow the ergonomic, sound absorption, and thermal insulation benefits of polyurethane backing to be applied to previously coated carpet. These backings still include the ecologically friendly, post-consumer recycled PET backing fabric.

EnviroCel Laminate Plus & Residential

EnviroCel Cushion Plus



Also with the EnviroCel Polyurethane Precoat, this product is lightweight and durable. The 18lb density polyurethane cushion increases flexibility and comfort, and buffers for extended wearability.



EnviroCel Laminate Plus & Laminate Residential products feature an environmentally friendly polyurethane precoat with a revolutionary, patent-pending extruded fiberization adhesion layer that provides increased flexibility and delamination strength, while significantly reducing product weight for ease of transport.

LEEDing the Way

Carpet

Floor covering products incorporating EnviroCel and BioCel may contribute to the total building materials requirement for rapidly renewable materials under credits 4.1, 4.2, 5.1, 5.2, and 6 of the Materials & Resources and 4.3 of the Indoor Environmental Quality sections of version 2.2 of the LEED guidelines.

Carpet backed with EnviroCel and BioCel assists in meeting the Federal Government's objective to create U.S. jobs through its purchase of products made with materials from U.S. farms. It meets the requirements for purchasing carpet with biobased content under the U.S. Department of Agriculture's BioPreferred® program, the sustainable product acquisition requirements, and qualifies under the General Services Administration's SIN 31-601 for carpet with biobased content. Universal's backing systems have also been verified as meeting the requirements and criteria that a backing supplier needs to be NSF/ANSI 140 compliant ready.

Synthetic Turf

UTT can apply their trademarked polyurethane backings, BioCel and EnviroCel, to any synthetic turf. Adding our state-of-the-art backings provide the same environmental benefits that come with our products designed for carpet, making the turf more durable, versatile, and longer-lasting.

Unitary polyurethane is a popular backing in the synthetic turf industry, and BioCel is recognized for performance and environmental sustainability, both in manufacturing processes and in overall recyclability. Polyurethane attached cushion is available in 3mm, 5mm, and 8mm thickness. Both of these performance systems may be perforated for drainage.

The installation possibilities are expansive whether you choose BioCel Unitary or EnviroCel Laminate Plus for landscaping, BioCel Unitary for playing fields or BioCel Turf Cushion for indoor or outdoor facilities. Designed to be a greener, smarter, and more durable backing system, UTT's products demonstrate proven value in an industry where quality is everything.



At Universal Textile Technologies, we are known as industry pioneers in using recycled and bio-based materials and state-of-the-art technologies to engineer and manufacture our performance carpet and synthetic turf backings. As charter members of the Bio-Based Product Coalition and the Synthetic Turf Council, Universal is also a member of the CARE Carpet America Recovery Effort. Proven by more than 35 years of industry leadership, UTT is committed to using the finest equipment, the latest technologies and the most highly-trained people to produce the highest performing products anywhere in the industry.

On the Go With UTT

iOS and Android users: be sure to download UTT's free mobile app, a fingertip reference guide for anyone needing immediate access to product information about BioCel and EnviroCel backing systems for carpet and synthetic turf. Browse our backings section to compare products for attributes including moisture resistance, sound absorption, thermal insulation, durability, LEED information, and more. You can also share this data with others using a simple touchscreen button.

Available free from your mobile phone's App store.

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