

## **BIOCEL CUSHION**

Polyurethane Carpet Backing

## **BIOCEL LAMINATE**

Polyurethane Carpet Backing

### **From Field to Floor**

For over 30 years, polyurethane carpet backing technology has been used in the production of carpet. Since its initial introduction, polyurethane has become the backing of choice because of its high structural integrity and performance related properties. Today, this technology is further enhanced with the addition of a revolutionary polyurethane polymer that helps address important environmental goals of the industry. Introducing BIOBASED polymers.

### **Renewable Resource**

BIOBASED polymers are polyurethane polymers that are manufactured with a portion of the polyol coming from a renewable resource, the soybean plant. Soybean oil is first extracted from individual soybeans. It is stabilized by removing gums and waxes and then used to develop soy-based polyols. Soy-based polyols are then formulated with technology from Universal Textile Technologies, LLC (UTT), which becomes an integral component to the carpet backing. The end product is a high quality carpet backing that utilizes a polymer derived from a stable supply of soybeans.

### **UTT Incorporates BIOBASED Polymers into BIOCEL Polyurethane Carpet Backings**

Today, BIOBASED polymers are being incorporated into all polyurethane backings processed at UTT including BioCel\* polyurethane carpet backings. UTT also offers a 100% post consumer, recycled PET, non-woven secondary outer surface for commercial backings applied at their facility. This combination of sustainable materials makes 60-70% of the backing weight of BioCel\* a composite of renewable resource material, post consumer material, and post-industrial material.

### **Leed™ Guidelines**

Specifying BIOBASED polymers not only provides the opportunity to use a product that is derived from a renewable resource but also supports the agricultural community. In addition, specifying carpet with BIOBASED polymers contributes to satisfying a percentage of the total building material requirements for rapidly renewable materials under the Materials and Resources Section of Version 2.1 of the LEED Green Building Rating System™. The rating system "evaluates environmental performance from a 'whole building' perspective over a building's life cycle..."<sup>1</sup>

For more information on UTT's sustainability efforts, visit [www.universal-textile.net](http://www.universal-textile.net).

Note: Government purchase of floor covering products incorporating BioBased polymers can be submitted under GSA SIN31-601.

1. Leadership in Energy and Environmental Design (LEED™) Green Building Rating System Web-site, page 1, August 20, 2001.



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