



# UNIVERSAL

## TEXTILE TECHNOLOGIES

### **BioCel™ Cushion and 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 BIO-BASED polymers.

#### **Renewable Resource**

BIO-BASED polymers are polyurethane polymers that are manufactured with a portion of the polyol coming from natural oils, a renewable resource. Natural vegetable oil is first extracted from individual plants. It is stabilized by removing gums and waxes and then used to develop vegetable-based polyols. Vegetable-based polyols are then formulated with technology from Universal Textile Technologies, LLC (UTT), which becomes an integral component of the carpet backing. The end product is a high quality carpet backing that utilizes a polymer derived from a stable supply of domestic crops.

### **UTT Incorporates BIO-BASED Polymers into BIOCEL Polyurethane Carpet Backings**

Today, BIO-BASED 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 are a composite of renewable resource material, post consumer material and post-industrial material.

#### **LEED® Guidelines**

Specifying BIO-BASED 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 BIO-BASED 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>

Note: Government purchase of floor covering products incorporating Bio-based polymers can be submitted under GSASIN31-601.

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

For additional information:

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