

## Millennium One Step™ Green Foamable Adhesive and the U.S. Green Building Council LEED® Green Building Rating System

### *How it Works*

The U.S. Green Building Council (USGBC) is a non-profit organization that certifies sustainable businesses, homes, hospitals, schools, and neighborhoods. The USGBC has developed a Green Building Rating System® that outlines environmental, economic, and health benefits in the built environment to help minimize the impact to our natural environment.

The Leadership in Energy and Environmental Design (LEED®) Green Building Rating System is a voluntary, consensus-based national rating system for developing high-performance, sustainable buildings. The major LEED® Green Building Rating System is LEED® for New Construction & Major Renovation Version 2.2. It is designed for new construction and major renovation of buildings. This rating system consists of six sections which are:

1. Sustainable Sites (SS)
2. Water Efficiency (WE)
3. Energy & Atmosphere (EA)
4. Materials & Resources (MR)
5. Indoor Environmental Quality (EQ)
6. Innovation & Design Process (ID)

Within each of these sections there are credit opportunities that provide points toward building certification. **The use of Millennium One Step™ Green Foamable Adhesive in green building design provides multiple opportunities for a project to earn credit toward LEED points.**

The opportunities within LEED® for New Construction & Major Renovations, Version 2.2 are as follows:

### *1. Materials & Resource (MR) Credit 6.0: Rapidly Renewable Materials-1 Point*

The Intent is to reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials.

The requirement is to use rapidly renewable building materials and products (made from plants that are typically harvested within a ten-year cycle or shorter) for 2.5% of the total value of all building materials and products used in the project, based on cost.



Millennium One Step™ Green is an exciting, new, patent pending, VOC-free, all-weather insulation adhesive. Unlike competitive products on the market produced with less than 15% bio-derived raw materials, One Step™ Green is manufactured with an industry-leading **45%\*** rapidly renewable content.

Contribution is determined by multiplying .45 by the dollar amount of One Step™ Green on the project. This value can be added to other rapidly renewable materials used on the project.

**\*45% rapidly renewable content independently certified by Iowa State University on 6-23-2008.**

**CAUTION:** All statements and technical information in this document are based on tests or data that ADCO believes is reliable. However, ADCO does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of ADCO's products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of ADCO's product with the design, structure, and materials of the user's end product and the suitability of ADCO's product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.

## 2. Materials & Resource (MR) Credit 5.1: Regional Materials: 10% Extracted, Processed & Manufactured Regionally-1 Point

The intent is to increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

The requirement is to use building materials or products that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% (based on cost) of the total material's value. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.



Millennium One Step™ Green Foamable Adhesive may contribute to this point for projects within a 500 mile radius of the factory located in Chagrin Falls, Ohio.



## 3. Indoor Environmental Quality (EQ) Credit 4.1: Low-Emitting Materials: Adhesives & Sealants-1 Point

The intent is to reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

The requirement is that all adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system applied on-site) shall comply with the requirements of the following standards:

- Adhesives, Sealants and Sealant Primers: South Coast Air Quality Management District (SCAQMD) Rule #1168. VOC limits are listed in the table below and correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005.

Specialty Applications	VOC Limit (g/L less water)
Special Purpose Contact Adhesive	250

Entire table can be found in the LEED for New Construction & Major Renovations.

Millennium One Step™ Green Foamable Adhesive is VOC free and therefore may contribute to this point.

### Other Advantages

Millennium One Step™ Green Foamable Adhesive is designed for use with our highly popular One Step™ patented application process which eliminates material waste. The patented Multi-Bead Plus\*\* applicator used to apply the adhesive runs on rechargeable batteries helping to further reduce our "carbon footprint".



**\*\*U.S. Patent Nos. 7,056,556; D501,855**

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**WARRANTY:** ADCO warrants its products to conform to ADCO's specifications at the time of sale when tested according to ADCO standards. If a product is proven to be defective when tested according to ADCO standards, ADCO will, at its option, refund the purchase price or replace or repair the defective product. THIS LIMITED WARRANTY IS THE BUYERS SOLE AND EXCLUSIVE REMEDY AGAINST ADCO AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall ADCO be liable for any special, incidental, consequential, or punitive damages arising out of any claims whether based on negligence, contract, warranty, strict liability or otherwise.