ICD
High Performance Coatings

June 2005

USGBC LEED™ Specification Solutions

The Leadership in Energy and Environmental Design (LEED™) Green Building Rating System represents the U.S. Green Building Council's effort to provide a national standard for what constitutes a "green building." Through its use as a design guideline and third-party certification tool, it aims to improve occupant well-being, environmental performance and economic returns of buildings using established and innovative practices, standards and technologies (*cited LEED™ "Green Building Rating System" Version 2.1 November 2002, Revised 3/14/03)*

USGBC or LEED™ does not certify building products rather they provide a standard by which a building can be rated and certified as a green building.

This document is a tool for architects, specifier's, designers, building owners or other professionals who need an overview of ICD products and how they may help contribute to a building attaining LEED™ certification as a green building.

The format follows that established by the USGBC in the project checklist published in the *Green Building Rating System for New Construction and Major Renovations (LEED-NC) Version 2.1.*

Although there are some categories that fall outside of the area by which ICD products could contribute, the overall effort in the green building can be greatly impacted by ICD products.

LEED™ Category:
Materials & Resources

Credit 2.1*: Construction Waste Management: 50% Diverted*

Credit 2.2: *Construction Waste Management: 75% Diverted*

LEED Credit: 1 Point (Per credit[1])

Intent: Divert construction, demolition and land clearing debris from landfill disposal. Redirect recyclable recovered resources back to the manufacturing process. Redirect reusable materials to appropriate sites.

Requirements: Develop and implement a waste management plan, quantifying material diversion goals. Recycle and/or salvage at least 50%/75% of construction, demolition and land clearing waste. Calculation can be done by weight or volume, but must be consistent throughout.

Potential ICD Product Solution:

- *OPACI-COAT-300® Waterbased Silicone Spandrel*

OPACI-COAT-300® does not contain any heavy metals or hazardous substances. Glass coating in the spandrel area on glass can be used as clean fill on-site or off-site if a building containing them is to be demolished.

LEED™ Category:
Materials & Resources

Credit 5.1: *20% manufactured[2] regionally*

Credit 5.2: *50% manufactured* regionally

LEED Credit: 1 Point (Per credit)

Intent: Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the regional economy and reducing the environmental impacts resulting from transportation.

Requirements: Use a minimum of 20%/50%of building materials and products that are manufactured* regionally within a radius of 500 miles.

Potential ICD Product Solution:

- *OPACI-COAT-300® Waterbased Silicone Spandrel*

ICD's Approved Factory Fabricator (AFF) program is a network of highly trained, certified and qualified fabricators throughout the United States, Canada and Mexico. Each AFF fabricator is also a fabricator of architectural glass products, which lends to the highest possible level of quality and performance, which can claim additional credit toward LEED certification, depending on the percentage of glass material used in their project.

Anywhere from one to five fabricators may be within a 500 mile radius of any jobsite.

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[1] *Same criteria apply yet if 75% waste diverted is achieved then an additional credit can be attained in addition to one credit from 2.1.*

LEED™ Category:
Indoor Environmental Quality

Credit 4.2: ***Low Emitting Materials: Paints and Coatings***

LEED Credit: 1 Point (Per credit)

Intent: Reduce the quantity of indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installers and occupants.

Requirements: VOC emissions from paints and coatings must not exceed the VOC and chemical component limits of Green Seal's Standard GS-11 Requirements.

Potential ICD Product Solution:

- *OPACI-COAT-300® Waterbased Silicone Spandrel*

OPACI-COAT-300® is low VOC for applicators yet is cured at the fabricator facility and will have no VOCs emitted in the building, during installation or installed.

[2] *Manufacturing refers to the final assembly of components into the building product that is furnished and installed by the tradesmen. For example, if the hardware comes from Dallas, Texas, the lumber from Vancouver, British Columbia, and the joist is assembled in Kent, Washington; then the location of the final assembly is Kent, Washington.*