



LEED Point Contributor: Ashford Formula™

The United States Green Building Council (USGBC) does not certify that specific products comply with the guidelines set forth in the **Leadership in Energy and Environmental Design (LEED)** rating system for **New Construction and Major Renovations**. However, the guidelines state clearly that products with certain properties **qualify for the points** used in LEED project certification.

The properties of the Ashford Formula™ are associated with the following LEED points:

MATERIALS & RESOURCES CREDIT

Materials & Resources Credit 1.1, 1.2 and 1.3: Building Reuse

Intent: *Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.*

The Ashford Formula™ can contribute points depending on the percentage of overall flooring that is treated. The Ashford Formula™ will last the lifetime of the building and does not have to be removed or replaced if the building is sold or remodeled. In renovation projects, the application of the Ashford Formula™ on the existing floor allows for the reuse of existing materials.

Materials & Resources Credit 3.1 and 3.2: Materials Reuse

Intent: *Reuse building materials and products in order to reduce demand for virgin materials and to reduce waste, thereby reducing impacts associated with the extraction and processing of virgin resources.*

The Ashford Formula™ can contribute points by reusing the existing concrete floor at a cost of at least 5 – 10% of the total value of materials on the project.

Materials & Resources Credit 5.1 and 5.2: Regional Materials

Intent: *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 Ashford Formula™ can contribute points if the project is within 500 miles of where it is manufactured – Springville, Utah.

INDOOR ENVIRONMENTAL QUALITY CREDIT

Indoor Environmental Quality Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction

Intent: *Reduce indoor air quality problems resulting from the construction/renovation process in order to help sustain the comfort and well-being of construction workers and building occupants.*

The Ashford Formula can contribute points because it is a flooring product, and an alternative to carpet. This standard calls for sequencing construction so that “absorptive materials” such as insulation, carpeting, ceiling tile and gypsum wallboard” do not become contaminated and thus degrade the safety of the working environment. Concrete floors treated with the Ashford Formula are not absorptive like carpet, and are therefore not susceptible to such contamination.

Indoor Environmental Quality Credit 3.2: Construction IAQ Management Plan: Before Occupancy

Intent: *Reduce indoor air quality problems resulting from the construction/renovation process in order to help sustain the comfort and well being of construction workers and building occupants.*

The Ashford Formula can contribute points because it is based completely on inorganic chemistry, and therefore does not contribute whatsoever, to the presence of formaldehyde, particulates, VOCs, and 4-Phenylcyclohexene. Further, the Ashford Formula produces no fumes, vapors, or off-gassing, which is not the case with most floor coatings and floor coverings.

Indoor Environmental Quality Credit 4.1: Low-Emitting Materials: Adhesives & Sealants

Intent: *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 Ashford Formula can contribute points because it dispenses with all floor coverings and allows exposed concrete floors to be used as the finished working surface. This standard specifically references sealants and adhesives, such as those used on carpet, carpet pads, rubber floors, VCT and ceramic tile, which the Ashford Formula does not use.

Indoor Environmental Quality Credit 4.2: Low-Emitting Materials: Paints & Coatings

Intent: *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 Ashford Formula can contribute points because it contains no VOCs whatsoever, and is compliant with this standard. This standard calls for low-emitting products compliant with the South Coast Air Quality Management District (SCAQMD) Rule 1113 in effect on January 1, 2004. The Ashford Formula is classified as a concrete and masonry sealer. This type of product must have a VOC content of less than 100 g/L.

Indoor Environmental Quality Credit 7.1 and 7.2: Thermal Comfort

Intent: *Provide a comfortable thermal environment that supports the productivity and well-being of building occupants.*

The Ashford Formula™ can contribute points by retaining the inherent thermal properties of concrete to reduce the cooling load and heating load of the building, thus increasing the thermal comfort of the occupants. The Ashford Formula™ treated concrete increases the benefits of in-floor radiant, or solar heating and cooling systems by maximizing the building envelope's thermal mass.

INNOVATION & DESIGN PROCESS CREDIT

Innovation & Design Process Credit 1 – 1.4: Innovation in Design

Intent: *To provide design teams and projects the opportunity to be awarded points for exceptional performance above the requirements set by the LEED for New Construction Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED for New Construction Green Building Rating System.*

The Ashford Formula™ avoids floor coverings and coatings. Maintenance of an Ashford Formula™ floor is simple and very environmentally friendly, using water or a water-based detergent and reducing the floor's life cycle cost. The sealed surface provides allergy relief to occupants because it does not harbor pollen or mold. The Ashford Formula™ will perform well under conditions of temperature change, and wet conditions, in case of natural disaster or other emergency.