

B₋₁ ARRIER

High Performance Concrete Admixture and Topical System



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This brochure itemizes the potential LEED-NC v. 2.2 credit points to which the usage of Barrier-1 Admixture or Topical System can contribute. In every case, the use of a Barrier-1 product alone will not earn the credit. The LEED applicant is ultimately responsible for determining the product attributes that will help provide LEED-certification of a building project. Under the LEED-NC category, the use of Barrier-1 High Performance Admixture or the Barrier-1 Topical System can assist building teams in obtaining a minimum of six LEED points, as long as the overall design meets or exceeds the LEED building performance standards. The final decision on LEED product compliance lies with the LEED Accredited Professional retained for the specific project. The role of the architect, designer, contractor or other member of the building team is to make this data available and allow the LEED A/P to make the final determination.

LEED CONTRIBUTION

Category	Credit	Description	Potential Points	Credit Intent	LEED Requirements	Barrier-1 Contribution
Energy & Atmosphere	EA Credit 1	Optimize Energy Performance	1 - 10	To establish the minimum level of energy efficiency for the proposed building and systems.	The building team must design the building to comply with both the mandatory provisions of ASHRAE/IESNA Standard 90.1-2004 AND the Prescriptive Requirements of 90.1 OR the Section 11 Performance Requirements of 90.1 (without amendments) OR the requirements in the local energy code (whichever criteria is more rigorous). The number of LEED points available in this section will depend on the area of the building with concrete substrate and the percentage improvement of the proposed building as compared to the baseline.	Barrier-1 Admix <ul style="list-style-type: none"> Increases the density of the concrete substrate, thereby improving its insulation qualities Acts as a plasticizer and water reducer, creating a substrate that will not de-bond due to moisture migration or capillary action inside the slab and enhancing the overall insulation properties
	MR Credit 1.1 1.2 1.3	Building Reuse	1 - 3	To extend the life span of existing buildings and to help conserve resources, retain cultural resources, reduce waste and reduce the environmental impacts of new buildings as they relate to materials, manufacturing and transport.	Reused materials must comprise from 75 to 95% (by surface area) of the existing walls, floors and roof in the original building. An additional point is available for reusing 50% (by area) of the interior non-structural elements.	Barrier-1 Admix <ul style="list-style-type: none"> Densifies the concrete, increasing the overall strength of the slab between 5 and 25%, as well as providing years of additional life Barrier-1 Topical System <ul style="list-style-type: none"> Allows renovation of an existing concrete substrate and keeps material out of the landfill Provides a chemical seal preventing moisture intrusion from hydrostatic pressure and capillary action, which prolongs the life of the slab
		MR Credit 3.1 3.2	Materials Reuse	1 - 2	To 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 previously undisturbed resources.	To use salvaged, refurbished or reused materials such that the sum of these materials constitutes at least 5% up to 10%, based on cost, of the total value of the materials on the project. The calculation for this credit can only include materials permanently installed in the project, like a concrete slab.
Indoor Environmental Quality	MR Credit 5.1 5.2	Local/Regional Materials	1 - 2	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.	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% up to 20% (based on cost) of the total materials 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.	Barrier-1 Manufacturing Facility <ul style="list-style-type: none"> Located in Morehead City, North Carolina Qualified 500-mile radius includes many major East Coast markets: New York, NY; Columbus, OH; Atlanta, GA; Jacksonville, FL
		EQ Credit 4.1	Low-Emitting Materials: Adhesives and Solvents	1	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well being of the installers and occupants.	The building team must specify that all adhesives and sealants used on the interior of the building shall comply with the requirements of South Coast Air Quality Management District (SCAQMD) Rule #1168.
	EQ Credit 7.2	Thermal Comfort: Verification	1	To provide for the assessment of building thermal comfort over time.	The building team is required to implement a thermal comfort survey of the building's occupants within a period of six to 18 months after occupancy. This survey should collect anonymous responses about thermal comfort in the building and identification of thermal comfort-related problems.	Barrier-1 Admix and Topical System <ul style="list-style-type: none"> Create a slab that is more dense and waterproof, both characteristics that enhance the insulation benefits of the thermal mass