



BARRIER ONE

POROSITY INHIBITING CONCRETE ADMIXTURE



BARRIER ONE LEED CONTRIBUTION

Admixture Benefit	How it Works	LEED®+				Credit**	Points*
Enhances insulative qualities of the slab	<ul style="list-style-type: none"> Increases the concrete's density Creates a substrate that will not de-bond due to moisture migration or capillary action inside the slab 	NC	CS	SCH	EB	EA 1: Optimize Energy Performance	varies
		NC	CS	SCH	EB	IEQ 7.2: Thermal Comfort, Verification	1
Increases useful life-cycle of the concrete substrate	<ul style="list-style-type: none"> Increases the overall slab strength Provides a chemical seal that prevents moisture intrusion from capillary action 	NC	CS	SCH	EB	MR 1.1: Building Reuse	varies
		NC	CS	SCH	EB	MR 3: Materials Reuse	1-2
		NC	CS	SCH	EB	MR 3: Sustainable Purchasing	1
Contributes to healthy indoor air quality	<ul style="list-style-type: none"> Contains zero Volatile Organic Compounds (VOCs) Contains a mold growth inhibiting additive that impacts both the slab surface and floor coverings 	NC	CS	SCH	EB	IEQ 4.3: Low-Emitting Materials	1
		NC	CS	SCH	EB	EA 6: Emissions Reduction Reporting	1
		NC	CS	SCH	EB	MR 3: Sustainable Purchasing	1
		NC	CS	SCH	EB	IEQ 10: Mold Prevention	1
Renders the concrete non-hygroscopic through an innovative chemical process	<ul style="list-style-type: none"> Creates a "gel" that complete fills the capillary system in the concrete Effectively shuts down the route of vapor emission, resulting in increased strength and density 	NC	CS	SCH	EB	ID/IO 1: Innovation in Design/Operations	1
Product proximity to many major Southeast markets	<ul style="list-style-type: none"> Largest most innovative Porosity Inhibiting Admixture (PIA) manufacturing plant in the U.S. 	NC	CS	SCH	EB	MR 5: Regional Materials	1-2

*Values listed are potential points available for that credit. In every case, the use of a BOI Admixture product alone will not earn points.

*LEED® Green Building Rating System™ abbreviations (used above):
 (Note: Green color coded blocks indicate applicable standard.)
 NC = LEED® 2009 for New Construction & Major Renovations
 CS = LEED® 2009 for Core & Shell Development
 SCH = LEED® 2009 for Schools
 EB = LEED® 2009 for Existing Buildings: Operations & Maintenance

**LEED® Credit Category abbreviations (used above):
 EA = Energy & Atmosphere
 IEQ = Indoor Environmental Quality
 MR = Materials & Resources
 ID = Innovation & Design Process
 IO = Innovation in Operations

ADDITIONAL BARRIER ONE BENEFITS POROSITY INHIBITING ADMIXTURE (PIA)

Removes Project Liability

- Unmatched comprehensive "life of the concrete" warranty when specified
- Unmatched project specific quality control process
- Unmatched adherence guarantee
- ZERO moisture vapor emission flooring failures

Reduced Construction Cost

- NO further field moisture testing required
- NO unanticipated topical moisture mitigation expense

Ease of Use

- Easily dosed, delivered and finished
- Completely compatible with normal and lightweight mix designs
- Compatible with all floor coverings, adhesives, coatings and roofing membranes

Reduced Construction Time

- Requires only 1 day curing with plastic sheet or waterproof paper
- Install slab coverings in as little as 9 days after placement of concrete

Improved Slab Properties

- Greatly reduces shrinkage and slab curl
- Breaks the construction moisture cycle; slabs will be ready for coverings