



# BARRIER ONE

## CONCRETE ADMIXTURES

### Barrier One Porosity Inhibiting Admixture (PIA)

Barrier One PIA can contribute up to 26 points in LEED Certification by contributing to MR1.1, MR 3, MR 5 and IEQ 7.2  
See chart below for more.

Admixture Benefit	How it Works	LEED				Credit	Points
		NC	CS	SC H	EB		
Enhances insulate qualities of the slab	<ul style="list-style-type: none"> <li>- Increases the concrete density</li> <li>- Creates a substrate that will not de-bond due to moisture migration or capillary action inside the slab</li> </ul>	NC	CS	SC H	EB	EA 1: Optimize Energy Performance	1-10
		NC	CS	SC H	EB	IEQ 7.2: Thermal comfort, Verification	1
Increases useful life-cycle of the concrete substrate	<ul style="list-style-type: none"> <li>- Increases the overall slab strength</li> <li>- Provides a chemical seal that prevents moisture intrusion from capillary action</li> </ul>	NC	CS	SC H	EB	MR 1.1: Building Reuse	1-7
		NC	CS	SC H	EB	MR 3: Materials Reuse	1-2
		NC	CS	SC H	EB	MR 3: Sustainable Purchasing	1
Contributes to healthy indoor air quality	<ul style="list-style-type: none"> <li>- Contains zero Volatile Organic Compounds (VOC's)</li> <li>- Contains a mold growth inhibiting additive that impacts both the slab surface and floor coverings</li> </ul>	NC	CS	SC H	EB	IEQ 4.3: Low-Emitting Materials	1
		NC	CS	SC H	EB	EA 6: Emissions Reduction Reporting	1
		NC	CS	SC H	EB	MR 3: Sustainable Purchasing	1
		NC	CS	SC H	EB	IEQ 10: Mold Prevention	1
Renders the concrete non-hydroscopic through an innovative chemical process	<ul style="list-style-type: none"> <li>- Creates a "gel" that completely fills the capillary system in the concrete</li> <li>- Effectively shuts down the route of vapor emission, resulting in increased strength and density</li> </ul>	NC	CS	SC H	EB	ID/IO 1: Innovation in Design/Operations	1
							1
							1
Product proximity to many major Southeast markets	<ul style="list-style-type: none"> <li>- Largest most innovative Porosity Inhibiting Admixture (PIA) manufacturing plant in the U.S.</li> </ul>	NC	CS	SC H	EB	MR 5: Regional Materials	1
							1-2