



# sustainability of lumiflon

	LEED Credit and Intent	Applicable Rating System	How LUMIFLON May Contribute
Sustainable Site Development	<b>Stormwater Design Quality Control - Credit 6.2 (1 pt.)</b>  <i>To limit disruption and pollution of natural water flows by managing stormwater runoff.</i>	NC C & S Schools	Use of emulsion-based LUMIFLON coatings over existing roof coatings improves quality of stormwater from roof by eliminating water contact with underlying roof surface. LUMIFLON coatings are very stable and do not bond with water molecules.
	<b>Heat Island Effect: Roof Credit 7.2 (1 pt.)</b>  To reduce heat islands to minimize impacts on microclimates and human and wildlife habitats.	NC C & S Schools EBOM	A LUMIFLON clear coating added to an existing roof coating will help maintain solar reflectivity of roof, reducing the heat island effect.  Tests performed in Japan indicate that the use of LUMIFLON resins reduces dirt accumulation on a roof, helping to maintain effectiveness of reflective roof system.
Energy and Atmosphere	<b>Minimum Energy Performance (Prerequisite – no pts.)</b>  <i>Establish the minimum level of energy efficiency for the building and systems.</i>	NC C & S Schools EBOM	LUMIFLON coatings on roofs and walls perform at optimal levels after years of exposure to the elements, resulting in less heat transfer through the envelope and reduced cooling loads.
	<b>Optimize Energy Performance (Points vary)</b>  <i>To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.</i>	NC 2-19 pts. C & S 3-21 pts. School 1-19 pts. EBOM 1-18 pts.	
Indoor Environment	<b>Low-Emitting Materials Paints &amp; Coatings - Credit 4.2 (1 pt.)</b>  <i>To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.</i>	NC C & S CI Schools	Powder-grade resins (LF-710F) contain zero VOCs; Emulsion (FE-4300, FE-4400) and Solid-grade (200F and 916F) resins can be formulated to contain less than 50 g/L of VOC content:  These resins exceed the applicable Green Seal (GS) Standards including GS-03 for anti-corrosive and anti-rust paints applied to interior ferrous metal substrates (e.g. wall and ceiling panels) of 250 g/L.
Innovation in Design	<b>Innovation in Design (Points vary)</b>  <i>To provide design teams and projects the opportunity to achieve exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED Green Building Rating System.</i>	NC 1-5 pts. C & S 1-5 pts. CI 1-5 pts. Schools 1-4 pts. EBOM 1-4 pts.	LUMIFLON resins are used in the manufacture of high performance, architectural powder coatings, which have many innovative, custom applications. The unique versatility and durability of these coatings promote the creative use of color and gloss for both exterior and interior applications without compromising aesthetics.  LUMIFLON is the first solvent-soluble fluoropolymer for coatings that can be cured at room temperature conditions, making it highly suitable for field applications. As a result, designers can use the coatings on materials found on-site or locally in creative ways.

