



**Decorative Concrete
Technology**

A Division of The Euclid Chemical Company

LEED DATA SHEET COLOR HARDENER Solar Reflective Index Values

The Source for Quality Decorative Concrete Color

INCRETE SYSTEMS COLOR HARDENER

Ready-to-use dry-shake powder used to color and harden freshly placed concrete for stamping and other decorative surfaces. Available in an array of 30 standard colors, Increte Systems Color Hardener builds in color and increased surface strength.

SRI VALUES

The distinctive colors of Increte Systems' Color Hardener when utilized to create hardscape materials of High-SRI Concrete contributes to LEED points when these surfaces provide a Solar Reflective Index (SRI) with a minimum of 29 or higher as determined by ASTM E903 or ASTM C1549.

LEED CATAGORY SUSTAINABLE SITES	1 Point	Credit SS 7.1 Heat Island Effect - Non Roof
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New Construction-Retail
Existing Building
Schools
Heathcare
Core & Shell

The use of a combination of outlined strategies for 50% of the site hardscape including roads, sidewalks, courtyards and parking lots.

- Use hardscape materials with an SRI of at least 29
- Provide shade from existing tree canopy or within 5 years of landscape installation. Landscaping (trees)
- Provide shade from structures covered by solar panels that produce energy to offset some nonrenewable resource use.
- Provide shade from architectural devices or structures that have a solar reflective index of at least 29.
- Use an open-grid pavement system (at least 50% pervious)

LEED CATAGORY INNOVATION IN DESIGN	1-5 Points	Credit ID 1 Innovation in Design
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New Construction-Retail
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Substantially exceed a LEED 2009 performance credit. Apply strategies or measures that demonstrate a comprehensive approach and quantifiable environment and/or health benefits.

- PATH 1. Innovation in Design (1-5 Points)
Achieve significant, measurable environmental performance using strategy not addressed in the LEED 2009 Rating System.
- PATH 2. Exemplary Performance (1-3 Points)
Achieve exemplary performance in an existing LEED 2009 prerequisite or credit that allows exemplary performance.



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LEED CATAGORY

SUSTAINABLE SITES

1 Point

Credit SS 7.1 Heat Island Effect - Non Roof

All colors listed meet or exceed minimum LEED requirement for this credit

<u>Color Hardener Color</u>	<u>SRI</u>	<u>Color Hardener Color</u>	<u>SRI</u>
Brick Red	29.6	Sky Blue	88.5
Desert Tan	40.0	White	95.7
Adobe Buff	78.3	Silver Grey	37.0
Seafoam Green	66.9	Pewter	52.0
Tile Red	29.2	Coral	80.1
Maplewood	33.8	Harvest Sand	88.6
Sabal	66.8	Antique White	87.8
Sand Buff	39.3	Teal	60.8
Kool White	81.1	Peach	81.0
Sun Buff	48.3	Safety Yellow	62.0

SRI values listed were derived from the following test methods performed by an independent testing laboratory:

ASTM C1549: "Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using Portable Solar Reflectometer"

ASTM E1980: "Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces"