

Enduring. Beautiful. Color by Scofield.

Concrete Solutions for a Sustainable Future

LEED DATA SHEET

SOLACHROME® Integral Coloring Treatment for High-SRI Concrete

Primary use: Patented SOLACHROME Integral Coloring Treatment for High-SRI Concrete is designed to provide a heat reflective surface in a wide selection of distinctive shades and colors.

Manufactured by: L. M. Scofield Company
6533 Bandini Blvd. 4155 Scofield Rd.
Los Angeles, CA 90040 Douglasville, GA 30134
(800) 800-9900 (800) 800-9900

LEED Category – Sustainable Sites 1 point

Core and Shell
Healthcare
New Construction
Retail – NC
Schools

Credit SS 7.1 : Heat Island Effect – Non Roof

Use any combination of the following strategies for 50% of the site hardscape (including roads, sidewalks, courtyards and parking lots):

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

Refer to page 2 for a complete list of SRI values.

LEED Category – Innovation in Design 1-5 points

Core and Shell
Healthcare
New Construction
Retail – NC
Schools

Credit ID.1 : Innovation in Design

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 a 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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SOLACHROME® Integral Coloring Treatment for High-SRI Concrete – SRI Values

COLOR MADE W/ GRAY CEMENT	SRI	COLOR MADE W/ WHITE CEMENT	SRI
SC4271 Quicksilver	33	SC4271 Quicksilver	56
SC4272 Cool Bimini	36	SC4272 Cool Bimini	83
SC4273 Sago Palm	33	SC4273 Sago Palm	54
SC4274 Caribou	32	SC4274 Caribou	54
SC4275 Moonstone	36	SC4275 Moonstone	63
SC4276 Cayman Dream	38	SC4276 Cayman Dream	68
SC4277 Laguna Beach	34	SC4277 Laguna Beach	67
SC4278 Amethyst Ice	34	SC4278 Amethyst Ice	64
SC4279 Rose Quartz	32	SC4279 Rose Quartz	60
SC4280 Cool Brick	30	SC4280 Cool Brick	55
SC4281 Coco Bay	30	SC4281 Coco Bay	57
SC4282 Cool Canyon	31	SC4282 Cool Canyon	56
SC4283 Iced Tea	31	SC4283 Iced Tea	55
SC4284 Cool Taupe	30	SC4284 Cool Taupe	56
SC4285 Sunstone	33	SC4285 Sunstone	56
SC4286 Cold Front*	25	SC4286 Cold Front	35

*Note: This data is in reference to LEED 2009. LEED v4 data will be updated as available.

SC4286 Cold Front does not meet LEED minimum requirements for SS 7.1 when made with gray cement.

These concrete admixtures have been found to develop the stated SRI's in laboratory conditions.

Natural variations in sand, aggregate, other concrete components, and finishing technique may cause variations in actual solar reflectivity.

Solar reflectivity was determined by performing integrated sphere scanning reflective spectroscopy from 280 to 2200 nanometers, after traceable calibration to a National Institute of Standards and Technology standard. This is 99.51% of the total solar spectrum, as defined in the ASTM G173-03 Reference Spectra that uses the NREL SMARTS v. 2.9.2 Solar Flux.

The products may be covered by one or more of the following patents: US 7,815,728; US 8,157,910; US 8,366,824; US 8,632,631 or patent pending.

For more information, refer to Scofield's Tech-Data Bulletin A-334 SOLACHROME Integral Coloring Treatment for High-SRI Concrete, or contact your Scofield sales representative.