

# Integral Color

## Greenleaf Environmental Profile



### PRODUCT SPECIALIST

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*Exterior pathway at the Wynn Hotel, Las Vegas*

Since 1927, Solomon Colors, Inc. has been an industry leader as a worldwide supplier of decorative dry and liquid integral concrete color and dispensing systems. Two main production facilities in the U.S support the ready mix, concrete block and masonry industries through a global network of distributors. As our products evolve, we aim to maintain the highest standard of quality while continuing to reduce the environmental impact of our products by incorporating low impact materials, packaging and manufacturing processes. In this document you will learn specifics on how our integral pigments contribute to both green building rating systems such as LEED and a greener world in general.

### ONSITE WASTE MANAGEMENT

Dry pigments come in repulpable bags that when wet, break down and become part of the cement mixture. This eliminates construction waste production due to packaging and also makes for safer conditions for construction workers since they will not be exposed to particulates when pouring pigment into the concrete mixture.

### RECYCLED CONTENT

The raw materials utilized are recovered from the tool-making manufacturing process. This results in limited use of virgin materials, meanwhile those scraps will never end up in a landfill. In this document you will find a list of our recycled content values, by weight, for both dry and liquid concrete pigments.

**SOURCE OF MATERIALS:** Pigments are from non-domestic sources and will not contribute to goals related to local or regional product sourcing.



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### SOLAR REFLECTANCE INDEX

Surface temperature is measured as a calculation of the reflectance and emittance of the surface material called the Solar Reflectance Index (SRI). The resulting figure ranges between 0 and 100 and indicates the material's ability to mitigate heat absorption. Materials with the highest SRI are the coolest and the most appropriate choice for reducing the heat island effect. As a rule concrete has a higher SRI Value than typical asphalt. Many of Solomon Color's suite of pigments are designed to maintain or increase the SRI Value of concrete.

The heat island effect is the phenomenon of increased temperatures in urban areas due to heat absorption by man-made structures. The heat island effect negatively impacts human and wildlife for a variety of reasons including increased production of smog due to higher temperatures.

*SRI testing was completed by the independent testing lab, CTL Group. Tests were performed on medium gray cement at a 5.5 sack mix according to ASTM E 1980 – 01 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces, assuming an emittance of 0.9, which is appropriate for concrete.*

### ENVIRONMENTAL DATA

Color Swatches	Color Number	SRI	Post Industrial Recycled Content	
			Dry Pigment	ColorFlo® Liquid
Colony Red	413	*	100%	70%
Clay	413	*	100%	70%
Fox Red	413	37	100%	70%
Terra Cotta	413	*	100%	70%
Rose	417	*	100%	70%
Brick Red	417	40	100%	70%
Paver Red	417	*	100%	70%
Apple Red	417	*	100%	70%
Dusty Rose	489	*	100%	65%
Light Plum	489	24	100%	65%
Redwood	489	22	100%	65%
Dk Redwood	489	*	100%	65%
Rosemary	288	44	100%	65%
Ginger	288	41	100%	65%
Bamboo	288	41	100%	65%
Straw	288	48	100%	65%
Desert Tan	750	45	100%	65%
Salmon	750	45	100%	65%
Prairie Tan	750	*	100%	65%
Peach	750	*	100%	65%
Blush	366	*	100%	65%
Dk. Blush	366	*	100%	65%
Natural Red	366	*	100%	65%
Sand	775	46	100%	65%
Cedar	775	45	100%	65%
Camel	775	45	100%	65%
Sedona	775	*	100%	65%



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Tilt-up concrete  
Fossil Ridge High School  
Fort Collins, Utah



High Traffic Grocery Store

### ENVIRONMENTAL DATA

Color Swatches	Color Number	SRI	Post Industrial Recycled Content	
			Dry Pigment	ColorFlo® Liquid
Buckwheat	757	44	100%	65%
Pecan	757	41	100%	65%
Antique Gold	757	41	100%	65%
Old Gold	757	*	100%	65%
Trail Dust	755	*	100%	65%
Driftwood	755	40	100%	65%
Spice	755	41	100%	65%
Apricot	755	*	100%	65%
Canvas	306	37	100%	65%
Toffee	306	29	100%	65%
Burlap	306	29	100%	65%
Cinnamon	306	*	100%	65%
Thyme	238	44	100%	65%
Doeskin	238	41	100%	65%
Buttercup	238	44	100%	65%
Marigold	238	*	100%	65%
Earthen	338	*	100%	65%
Rawhide	338	25	100%	65%
Buckskin	338	24	100%	65%
Leather	338	*	100%	65%
Taupe	385	29	100%	65%
Lava	385	23	100%	65%
Buffalo	385	20	100%	65%
Bark	385	16	100%	65%



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**Tilt-up concrete**  
**Solomon Color's Headquarters**  
**Springfield, Illinois**



**Integral Color Relief**  
**Eagle Ridge Intermediate School**  
**St. George, Utah**

\*The colors astericked were not tested because their SRI was considered likely to be below 29. Green building rating systems such as LEED, use 29 as a minimum SRI Value for hardscaping and therefore materials lower than 29 would not contribute. Testing of additional or custom colors can be requested by contacting our customer service department.

### ENVIRONMENTAL DATA

Color Swatches	Color Number	SRI	Post Industrial Recycled Content	
			Dry Pigment	ColorFlo® Liquid
Sandstone	242	36	100%	65%
Sahara	242	*	100%	65%
Sandalwood	242	24	100%	65%
Nutmeg	242	*	100%	65%
Mauve	492	*	100%	65%
Merlot	492	*	100%	65%
Lilac	492	*	100%	65%
Garnet	492	*	100%	65%
Ash	467	28	100%	65%
Oyster	467	15	100%	65%
Orchid	467	13	100%	65%
Rustique	467	*	100%	65%
Olive	5092	*	22%	65%
Sage	5092	*	22%	65%
Avocado	5092	*	22%	65%
Slate	920	22	100%	61.5%
Smoke	920	*	100%	61.5%
Charcoal	920	*	100%	61.5%
Onyx	920	*	100%	61.5%
Color	Color Number	SRI	Post Industrial Recycled Content	
			ColorFlo® Granular Pigment	
Light Red	413	N/a	100%	
Dark Red	115	N/a	100%	
Yellow	417	N/a	100%	
Black	920	N/a	100%	