SGS SOLOMON COLORS, INC.

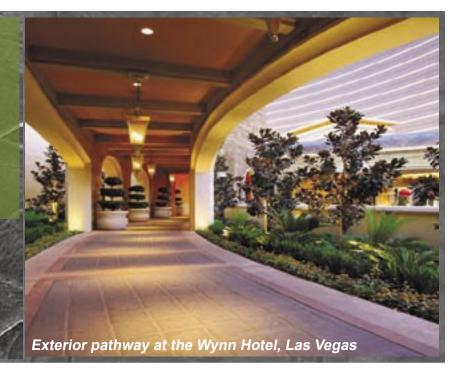
## **Integral Color**

**Greenleaf Environmental Profile** 

## **PRODUCT SPECIALIST**

### **Dale Keller**

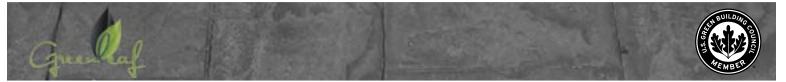
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Since 1927, Solomon Colors, Inc. has been an industry leader as a worldwide supplier of decorative dry and liquid integral concrete color and dispensing systems. Two main production facilities in the U.S support the ready mix, concrete block and masonry 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 manufactuing 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  | RECYCLED CONTENT  |
|--|---|
| Dry pigments come in repulpable bags that when<br>wet, break down and become part of the cement<br>mixture. This eliminates construction waste pro-<br>duction due to packaging and also makes for safer<br>conditions for construction workers since they will<br>not be exposed to particulates when pouring pig-<br>ment into the concrete mixture. | 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.



#### January 2010

## **Integral Color** Greenleaf Environmental Profile



### 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 phenomenmon of increased temperatures in urban areas due to heat absorbtion 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 emmitance of 0.9, which is appropriate for concrete.* 

| ENVIRONMENTAL DATA |      |        |     |                                  |                  |  |
|--------------------|------|--------|-----|----------------------------------|------------------|--|
| Color Swatches     |      | Color  | CDI | Post Industrial Recycled Content |                  |  |
| Color Swat         | cnes | Number | SRI | 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         | 1.73 | 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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|  | ENVIRONMENTAL DATA |   |            |     |                                  |                  |
|--|--------------------|---|------------|-----|----------------------------------|------------------|
|  | Color Swatches     |   | Color      |     | Post Industrial Recycled Content |                  |
| MAR  |                    |   | Number SRI | SKI | 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%              |
| crete<br>ge High School  | Canvas             |   | 306        | 37  | 100%                             | 65%              |
| s, Utah  | 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%              |
| A STATE OF A  | Buckskin           |   | 338        | 24  | 100%                             | 65%              |
| and the second second  | Leather            |   | 338        | *   | 100%                             | 65%              |
| State of the local division of the local div | Taupe              |   | 385        | 29  | 100%                             | 65%              |
|  | Lava               |   | 385        | 23  | 100%                             | 65%              |
|  | Buffalo            |   | 385        | 20  | 100%                             | 65%              |
| ic Grocery Store   | Bark               | - | 385        | 16  | 100%                             | 65%              |

Tilt-up con Formil Ridg **Fort Collins** 



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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 <u>service department.</u>

| ENVIRONMENTAL DATA |               |        |      |  |                  |  |
|--------------------|---------------|--------|------|--|------------------|--|
| Color Swatches     |               | Color  | SRI  | Post Industrial Recycled Content       |                  |  |
|                    | CHES          | Number | 5111 | Dry Pigment                            | ColorFlo® Liquid |  |
| Sandstone          |               | 242    | 36   | 100%                                   | 65%              |  |
| Sahara             | 896.23        | 242    | *    | 100%                                   | 65%              |  |
| Sandalwood         | 1.22          | 242    | 24   | 100%                                   | 65%              |  |
| Nutmeg             |               | 242    | *    | 100%                                   | 65%              |  |
| Mauve              | 1001          | 492    | *    | 100%                                   | 65%              |  |
| Merlot             | 12 Land       | 492    | *    | 100%                                   | 65%              |  |
| Lilac              | X             | 492    | *    | 100%                                   | 65%              |  |
| Garnet             | 1.11          | 492    | *    | 100%                                   | 65%              |  |
| Ash                | 1             | 467    | 28   | 100%                                   | 65%              |  |
| Oyster             | Carlos Carlos | 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              | 31            | 920    | 22   | 100%                                   | 61.5%            |  |
| Smoke              | 4.00          | 920    | *    | 100%                                   | 61.5%            |  |
| Charcoal           |               | 920    | *    | 100%                                   | 61.5%            |  |
| Onyx               | 11.20         | 920    | *    | 100%                                   | 61.5%            |  |
| Color              | Color         |        | SRI  | Post Industrial Recycled Content       |                  |  |
|                    |               | Number | 511  | ColorFlo <sup>®</sup> Granular Pigment |                  |  |
| Light Red          |               | 413    | N/a  | 100%                                   |                  |  |
| Dark Red           |               | 115    | N/a  | 100%                                   |                  |  |
| Yellow             |               | 417    | N/a  | 100%                                   |                  |  |
| Black              |               | 920    | N/a  | 100%                                   |                  |  |

This Greenleaf Environmental Profile was developed in collaboration with: www.Egreenideas.com

Green Ideas