SOLACHROME™ Integral Coloring

Treatment for High-SRI Concrete helps to mitigate the Urban Heat Island Effect

Concrete Color Chart A-382

SOLACHROME™ Integral Coloring Treatment for High-SRI Concrete is a patented solar reflective concrete coloring admixture. Its unique composition can permanently develop deep vibrant solar reflective colors that will stay cool longer and have reduced maximum temperatures than colors made from traditional technologies.

Protect Your Surface with Scofield Concrete Sealers

Scofield sealers protect the surface, enhance the appearance of colored concrete, and may provide protection against contamination and chemical attack on the surface of the concrete. Consult a Scofield Concrete Cures & Sealers Guide.
SOLACHROME™ High SR Color

Helps to mitigate the Urban Heat Island Effect

**S-29 Sunstone**
Solar Reflectance when made with:
- Gray Cement: SRI 33 | SR 0.296
- White Cement: SRI 56 | SR 0.475

**S-25 Cool Taupe**
Solar Reflectance when made with:
- Gray Cement: SRI 30 | SR 0.273
- White Cement: SRI 56 | SR 0.475

**S-27 Iced Tea**
Solar Reflectance when made with:
- Gray Cement: SRI 31 | SR 0.278
- White Cement: SRI 55 | SR 0.470

**S-24 Cool Canyon**
Solar Reflectance when made with:
- Gray Cement: SRI 31 | SR 0.278
- White Cement: SRI 56 | SR 0.475

**S-23 Coco Bay**
Solar Reflectance when made with:
- Gray Cement: SRI 30 | SR 0.271
- White Cement: SRI 57 | SR 0.480

**S-14 Cool Brick**
Solar Reflectance when made with:
- Gray Cement: SRI 30 | SR 0.273
- White Cement: SRI 55 | SR 0.470

**S-18 Rose Quartz**
Solar Reflectance when made with:
- Gray Cement: SRI 32 | SR 0.284
- White Cement: SRI 60 | SR 0.505

**S-11 Amethyst Ice**
Solar Reflectance when made with:
- Gray Cement: SRI 34 | SR 0.306
- White Cement: SRI 65 | SR 0.535

**S-28 Laguna Beach**
Solar Reflectance when made with:
- Gray Cement: SRI 34 | SR 0.307
- White Cement: SRI 67 | SR 0.555
Cool Colors, Cooler Pavement

SOLACHROME™ Integral Coloring Treatment for High-SRI Concrete is engineered to help keep concrete temperatures lower, and to minimize the unwanted transfer of heat into the surrounding air. This is achieved using specially formulated colors and patented technology, which utilizes pigments with higher solar reflectance compared to many conventional hardscape materials. This “cool pavement” technology helps reduce the heat buildup in the entire concrete slab.

Concrete colors shown are approximate. Using the contemplated materials and construction techniques, representative samples should be cast for approval. Colors shown represent SOLACHROME™ Integral Coloring Treatment for High-SRI Concrete made with both gray cement (left) and white cement (right). Refer to the SOLACHROME™ Integral Coloring Treatment for High-SRI Concrete Product Data Sheet at www.scofield.com for more information. The products may be covered by one or more of the following patents:

US 7,815,728; US 8,366,824; US 8,157,910; US 8,632,631

S-22 Cayman Dream
Solar Reflectance when made with:

<table>
<thead>
<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 38</th>
<th>SR 0.338</th>
<th>White Cement</th>
<th>SRI 68</th>
<th>SR 0.565</th>
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</thead>
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S-16 Moonstone
Solar Reflectance when made with:

<table>
<thead>
<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 36</th>
<th>SR 0.318</th>
<th>White Cement</th>
<th>SRI 63</th>
<th>SR 0.525</th>
</tr>
</thead>
</table>

S-12 Cold Front
Solar Reflectance when made with:

<table>
<thead>
<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 25</th>
<th>SR 0.240</th>
<th>White Cement</th>
<th>SRI 35</th>
<th>SR 0.315</th>
</tr>
</thead>
</table>

S-21 Caribou
Solar Reflectance when made with:

<table>
<thead>
<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 32</th>
<th>SR 0.288</th>
<th>White Cement</th>
<th>SRI 54</th>
<th>SR 0.460</th>
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</thead>
</table>

S-36 Sago Palm
Solar Reflectance when made with:

<table>
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<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 33</th>
<th>SR 0.299</th>
<th>White Cement</th>
<th>SRI 54</th>
<th>SR 0.460</th>
</tr>
</thead>
</table>

S-45 Cool Bimini
Solar Reflectance when made with:

<table>
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<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 36</th>
<th>SR 0.323</th>
<th>White Cement</th>
<th>SRI 83</th>
<th>SR 0.675</th>
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S-33 Quicksilver
Solar Reflectance when made with:

<table>
<thead>
<tr>
<th>Color</th>
<th>Gray Cement</th>
<th>SRI 33</th>
<th>SR 0.293</th>
<th>White Cement</th>
<th>SRI 56</th>
<th>SR 0.475</th>
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</table>
According to the U.S. Environmental Protection Agency, “The term “heat island” describes built up areas that are hotter than nearby rural areas. The annual mean air temperature of a city with 1 million people or more can be 1.8–5.4°F (1–3°C) warmer than its surroundings. In the evening, the difference can be as high as 22°F (12°C). Heat islands can affect communities by increasing summertime peak energy demand, air conditioning costs, air pollution and greenhouse gas emissions, heat-related illness and mortality, and water quality.” One cooling strategy is to use “paving materials on sidewalks, parking lots, and streets that remain cooler than conventional pavements (by reflecting more solar energy and enhancing water evaporation) not only cools the pavement surface and surrounding air, but can also reduce stormwater runoff and improve nighttime visibility.”

SOLACHROME™ Integral Coloring Treatment for High-SRI Concrete adds infrared light reflective color that is weather resistant, UV Stable, lightfast, and alkali resistant. It contains no materials that initiate, accelerate, or promote the corrosion of steel, coated metal, plastic, or rubber concrete reinforcements. It will not migrate from standing water, and can safely color concrete fountains, pools, water features, or concrete that will be polished and encounter damp or wet environments. All pigments used conform to the requirements of ASTM C 979 Pigments for Integrally Colored Concrete.

1https://www.epa.gov/heat-islands, 02/01/2019