

Dry Pigment Ready Mix Color Card



Solomon Colors



SGS Integral Colors

These color chips represent shades of Integral Colors based on 94 lbs. gray Type I-II Portland cement with 4" slump. Use this chart as a guideline only. The colors may not exactly represent the final color. Shade variations of cement and aggregate plus variations in the volume of water, the addition of admixtures and other additives may have an effect on the design mix and final color. We recommend that a test slab be poured and approved prior to the start of the job.

1 - 25lb. bag per 4 yards	1 - 25lb. bag per 2 yards	1 - 25lb. bag per 1 yard	1 - 25lb. bag per 4 yards	1 - 25lb. bag per 2 yards	1 - 25lb. bag per 1 yard
 413 Colony Red	 413 Clay	 413 Terra Cotta	 306 Canvas	 306 Toffee	 306 Cinnamon
 417 Rose	 417 Brick Red	 417 Apple Red	 238 Thyme	 238 Doeskin	 238 Marigold
 489 Dusty Rose	 489 Light Plum	 489 Dark Redwood	 338 Earthen	 338 Rawhide	 338 Leather
 288 Rosemary	 288 Ginger	 288 Straw	 385 Taupe	 385 Lava	 385 Bark
 750 Desert Tan	 750 Salmon	 750 Peach	 242 Sandstone	 242 Sahara	 242 Nutmeg
 366 Blush	 366 Dk. Blush	 366 Natural Red	 492 Mauve	 492 Merlot	 492 Garnet
 775 Sand	 775 Cedar	 775 Sedona	 5092 Olive	 5092 Sage	 5092 Avocado
 755 Trail Dust	 755 Driftwood	 755 Apricot	 920 Slate	 920 Smoke	 920 Onyx

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Integral Colors For Ready Mix

IRON OXIDE PIGMENTS

Over the past 10 to 12 years, the use of iron oxide colors in concrete has grown to be the single largest application for this type of pigment. This increase in usage has created a demand for better technology and quality control throughout the concrete industry.

COLOR PIGMENTS

Solomon Colors integral colors are packaged in 25 lb. white repulpable bags. This bag can be added directly into the truck. To ensure proper color dispersion, slit the bag before loading into the truck, then mix for ten minutes at high speed. For best results when using smooth or small aggregate, empty the pigment from the bag into the truck. Read and follow instructions on bag.

Mixing

- Mixer should be loaded to a minimum of 40% capacity to ensure good color dispersion.
- Be sure to use the same mix design and maintain a consistent water to cement ratio throughout the job with a MAXIMUM 4" SLUMP. (Higher slumps may be obtained by using a water reducer or plasticizer).
- Mix at high speed a minimum of 10 minutes before pouring concrete.
- Color variation may occur if batch proportion and slump are not maintained from load to load.
- After pour has begun, adding water to the load to improve workability should be kept to a minimum.

Additives

- DO NOT use calcium chloride. This product can cause discoloration in the form of light and dark areas in the finished product.

- The use of plasticizers, water reducers and air entraining products designed for colored concrete production are acceptable.

Job Site Preparation

Good drainage and compacted aggregate add many benefits to decorative concrete. Pouring concrete over an inconsistent sub-grade or mix of dirt, plastic, wood, asphalt and existing concrete will not cure evenly. These types of sub-grades will force majority of water to the surface to evaporate, leaving a calcium residue causing efflorescence in those affected areas. In hot conditions, dampen the sub-grade before each pour to keep moisture from being absorbed from the concrete too fast. Keep the sub-base moisture consistent throughout the day without allowing the water to pool.

Jobs requiring a vapor barrier and job sites having high heat and low humidity conditions are exceptions to pouring over plastic. Pouring concrete directly over plastic can lead to numerous problems including excessive bleed water, uneven drying time, shrinkage, cracking and efflorescence. Consider adding 2"-4" of sand between plastic and concrete. If pouring directly over plastic, mix design may need to be altered. Slump and placement techniques require tighter tolerances and finishers need to be well trained and experienced.

Curing

When applying a curing compound or sealer, follow the manufacturer's application recommendations and coverage rates. Use of a non-yellowing, UV-stable acrylic cure after a minimum of 24 hours is acceptable. With high heat and low humidity, a curing compound may need to be applied sooner. **Do Not** cover, fog, or wet cure colored surfaces.

TECHNICAL SPECIFICATION DATA

Composition and Materials

Pigments utilize pure red, yellow, and black synthetic iron oxides. Solomon Colors has expanded the color range by formulating laboratory controlled high tinting strength blends. Each of these colors is 95% to 99% minus 325 mesh particle size. Solomon Colors iron oxides are permanent, inert, stable to atmospheric condition, sunfast, limeproof, and free of deleterious fillers and extenders. All Solomon Colors pigments comply with ASTM C979 for integrally colored concrete and are produced to .8 Delta E, an established plant standard.

Limitations

A level of 7% color based on the weight of total cementitious material used is the color saturation point. Color added in excess of 10% will not provide additional benefits and can reduce the overall strength of the finished product. Conversely, a level of color below 1% can cause irregular coloring and general "washed out" appearance. The suggested "optimum" range is 2% to 4% pigment loading based on total cementitious material weight.

Limit of Warranty and Liability

Solomon Colors, Inc. warrants that their product conforms to the description and standards as stated on the product packaging and specific product literature. If properly mixed and applied, Solomon Colors, Inc. warrants the color to be uniform, limeproof, and sunfast. The exclusive remedy of the user or buyer and the limit of the liability of this company shall be the purchase price paid by the user or buyer for the quantity of the Solomon Colors products involved.



- For information on placing and finishing decorative concrete, ask for "Solomon Colors Guide to Decorative Concrete Products."

- CSI 3-Part Tech Spec Sheets Available at www.solomoncolors.com & www.sweets.com

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