

Brickform Powdered Integral Color

Product Description

Brickform Powdered Color is a quality assured uniform blend of pure iron oxide pigment packaged in pre-measured dissolving re-pulpable paper bags that are added at the ready-mix batch plant or at the jobsite. Brickform Powdered Color disperses evenly throughout the concrete mix and complies with ASTM C979 "Pigments for Integrally Colored Concrete". Brickform's System Approach provides the professional contractor the tools necessary for uniform batching, finishing, curing, and sealing to ensure the uniformity of architectural concrete.

Packaging

12 standard colors delivers 44 separate (distinct) concrete color shades. As shown, each base color on the Brickform Color Card illustrates dosages ranging from 1 bag per 2 yards; 1 bag per 1 yard; 2 bags per 1 yard; 3 bags per 1 yard of concrete.

Color Selection

The color card approximates non-sealed color shades of Brickform integral colors based on medium tone gray Type 1-2 Portland cement with a 4" slump. The final color shade will be affected by local cement & aggregates, addition of admixtures, water to cement ratio, curing, sealing, finishing methods, and the slab surface texture. The final color of lower color loadings such as 1 bag per 2 yards are influenced to a greater degree from cement and aggregate shades utilized in the mix design. A job site sample or test slab should be done, using the specified materials, as well as the finishing and curing techniques that will be used on the project.

Solar Reflection Index (SRI)

SRI is the measure of a surface's ability to stay cool in the sun by reflecting solar radiation and emitting thermal radiation. The SRI value is calculated according to ASTM E 1980. The SRI values are indicated next to the color swatch on reverse side.

Mix Design

The key to a uniform concrete color is consistency throughout the job.

cy throughout the job.

- The mixer drum should be clean with little or no build-up on fins.
- Mixer should be loaded to a minimum of 30% capacity to ensure good color dispersion.
- Consistent color can only be achieved by using the same mix design throughout the job (same sand, cement, admixtures, aggregates, and water to cement ratio).
- Consider adding UltraFiber 500 cellulose fiber reinforcement to your decorative project. UltraFiber 500 provides excellent secondary reinforcement is invisible in concrete and yields an aesthetically perfect finish with no special finishing practices. Links to UltraFiber\ 500 TIS information available at www.solomoncolors.com.
- Maintain a 4" slump (10cm), (low water to cement ratio). Higher slumps (maintaining low water to cement ratio) may be obtained by using water reducers. Note: use of plasticizers, water reducers, and air entraining products designed for use with colored concrete are acceptable. However, Brickform strongly recommends the use of a test slabs to determine final color outcome.
- Caution: Use of calcium chloride can cause discoloration on the surface of the concrete. Non-chloride accelerator, including hot water, are acceptable.
- When using Brickform Powdered Color in repulpable bags, slit the bag along the top dotted line, and completely remove and discard the top portion of the bag. Reverse the drum and slowly bring the concrete to the back of the drum near the chute. Add the bag(s) of color on the concrete mix and slowly draw them back into the mixer. Mix the repulpable bag(s) for a minimum of 10 minutes at high mixing speed. This allows the proper dispersion and bag disintegration in the mix.
- When using small ¼ "(0.6cm) or smooth rounded aggregates, or sand-blasted or exposed aggregate finishes, do not add the repulpable bag to the mixer. Add only the color pigment by opening the bag and pouring all color into the mixer.

Preparation of the Sub-Grade

Prepare the subgrade with compacted aggregate, free of frost, with no standing water is essential. In hot conditions, dampen the subgrade before each pour to keep moisture in the concrete to allow better hydration. Keep the subgrade moisture consistent throughout the day without allowing the water to pool. Pouring concrete directly over plastic can lead to numerous problems including excessive bleed water, uneven drying time, shrinkage, cracking, and efflorescence. Consider adding 2" to 4" of sand between plastic and concrete. If pouring directly over plastic, mix design may need to be altered. Consult with your Ready-Mix Supplier.

Placing and Finishing

Initial floating should be discontinued as soon as the surface becomes wet. Floating may be resumed after the surface water disappears. Additional water should not be applied to the concrete surface during finishing. We recommend using DAY1 Finishing Aid a colloidal silica-based topical additive as an alternative. Applied during floating and troweling, DAY1 increases cream, making for easier, better finishing and extended workable time under adverse conditions. DAY1 does not alter the water to cement ratio. It provides moisture retention performance like a liquid membrane forming curing compound. Ideal for all colored and decorative concrete applications. Links to DAY1 Finishing Aid TIS Information available at www.solomoncolors.com. Do not use a wet broom on finished concrete.

Curing

Never use plastic sheeting or water spray to cure colored concrete. Doing so will mottle and streak the surface of the concrete. Cure with Brickform Cure & Seal products to cure freshly placed concrete. Please reference the appropriate Brickform Cure & Seal TIS for full description of product use at www.brickform.com

Sealing

Protect the beauty of your decorative concrete project with Brickform's designed solvent or water base sealers. Brickform sealers are available in high gloss, medium gloss, or matte finish appearances. Brickform's premium sealers' information

available at www.brickform.com.

Follow professional standards and guidelines such as those from the American Concrete Institute (ACI) and the American Society of Concrete Contractors (ASCC) for concrete applications.

Warranty

This product is not intended for public use and is intended for use by licensed contractors and installers, experienced and trained in the use of these products. It is warranted to be of uniform quality, within manufacturing tolerances. The company has no control over the use of this product, therefore; no warranty, expressed or implied, is or can be made either as to the affects or results of such use. 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 Brickform products involved.