



BRICKFORM® Liquid Color™

Liquid Integral Concrete Color

BRICKFORM Liquid Color is an iron oxide, water-based mixture that can be added to concrete at the batch plant or at the job site. BRICKFORM Liquid Color disperses evenly throughout the concrete mix, is dust free, and is prepackaged to integrally color concrete by the cubic yard.

FEATURES

- Dust Free
- UV-Resistant Color
- Mixes Evenly
- Meets ASTM C979

PRODUCT DESCRIPTION • BRICKFORM Liquid Color is made from the finest UV-resistant pigments available. BRICKFORM Liquid Color is produced to a one-percent tolerance to established plant standards and also complies with ASTM C979, Pigments for Integrally Colored Concrete. BRICKFORM Liquid Color is designed to suspend and disperse the iron oxide pigments evenly. The product, when left standing for a period of time, will be quite thick. Stirring or agitating will thin the material so that it can be more easily pumped or poured into the concrete mix.

USES • BRICKFORM Liquid Color can be used for cast-in-place, precast, and tilt-up concrete, concrete block, pavers, and imprinted concrete. Designing with sawcuts on flatwork can add definition and sandblasting will expose the aggregates and create the appearance of different colors. Use BRICKFORM Texture Mats™ on flatwork to add depth and slip-resistance or combine with BRICKFORM Antique Release Agent™ in a contrasting color to achieve the look of other paving materials such as cobblestones slate or inset brick. After the concrete has been allowed to cure for 28 days, BRICKFORM Liquid Color can be stained, using BRICKFORM Blush-Tone Acid Stain™ or etched, using BRICKFORM Decorative Sandblast Stencils™. Please get a copy of the appropriate Technical Information Sheet and MSDS for each product.

LIMITATIONS • For uniform batch-to-batch color, the concrete mix design should be consistent. This Technical Information Sheet is not intended to establish compatibility of BRICKFORM Liquid Color with other concrete admixtures. Some custom colors can only be produced with white or light cements. Timing and placement of the concrete, forming and finishing techniques, release agents, curing methods, color of cements and aggregates, and water content may contribute to slight variations in the finished color. BRICKFORM strongly recommends representative jobsite samples.

CAUTION • KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Material Safety Data Sheet and Warranty. DO NOT TAKE INTERNALLY. Avoid contact with eyes and skin. Do not breathe mist. Wear rubber gloves and aprons to protect skin and wear safety eye goggles. Use good hygiene when handling this product and wash and bathe after each use. Be sure to wash clothing after each use.

COLORS • BRICKFORM Liquid Color is available in stocking, standard and designer colors. Custom colors and color matching are also available.

PACKAGING • BRICKFORM Liquid Color is pre-measured in standard colors and conveniently packaged in one-yard increments for a six-sack mix. Custom packaging is available for a nominal charge.

STORAGE • KEEP FROM FREEZING. Although the pigments will remain stable, freezing will cause separation, which will require additional re-mixing before the color can be used.

PREPARATION OF SUB-GRADE • The sub-grade must be uniformly graded, compacted and moistened, but free of standing water. Avoid placing concrete over soft, frozen, or muddy spots. Follow professional standards and practices, including those published by the American Concrete Institute (ACI).

PREPARATION OF CONCRETE • BRICKFORM strongly recommends representative jobsite samples or test slabs. Individuals who will be performing the work should use the specified materials, as well as the finishing and curing techniques that will be used on the project. Batch to batch uniformity must be maintained to produce consistent color. The concrete should be designed to meet the strength and finishing requirements of the project with a minimum cement content of 6 sacks per cubic yard and a maximum

slump of 4 inches. Gray cements, white cements, water-cement ratio and variations in aggregates will produce different colors. Finished texture, timing of operations, curing or forming-methods, release agents, and surface treatments will each affect the finished color. Use clean aggregates with low soluble salt content. Weigh all aggregates and cement accurately for each batch. A minimum batch size of 1/3 of the mixer, but no more the recommended capacity is the guideline for efficient mixing. OVERLOADING is not recommended and will reduce mixing efficiency. Begin each truckload with a thoroughly cleaned mixer.

IMPORTANT • BRICKFORM Liquid Color MUST BE AGITATED OR STIRRED, USING A PROPELLER-TYPE MIXER TO OBTAIN THE PROPER VISCOSITY. After the BRICKFORM Liquid Color is thoroughly mixed, it may be added at anytime to the batch. The aggregates will distribute the color evenly and allow complete coverage on the surface of the cement crystals. Mix at a minimum of 10 minutes AT HIGH SPEED before pouring. Water should never be added to a load of concrete after placement has begun or variance in color will occur. DO NOT USE CALCIUM CHLORIDE. Calcium Chloride may cause discoloration of the concrete. BRICKFORM Liquid Color is compatible with plasticizers and air-entraining products designed for colored concrete.

CONCRETE PLACEMENT • The slump must be consistent from load to load. Additional water to facilitate placement must be kept to a minimum. Do not add water after a portion of the concrete load has been discharged. Do not re-temper concrete that has started to set.

FINISHING TECHNIQUES • Initial floating should be discontinued as soon as the surface becomes wet. Floating may be resumed after the bleed water disappears. The final finish may be completed after floating. Final brooming or troweling should be done in the same direction. Maintain consistent finishing techniques. Avoid hard-troweling for the most uniform color. Over-troweling will discolor the concrete. Additional water should not be applied to the concrete surface during finishing.

CURING • The use of a low-pressure (atmospheric) or high-pressure (autoclave) steam to accelerate the curing process, burlap, plastic sheeting, or water to cure the concrete is NOT recommended and may produce uneven color. A clear, non-yellowing, breathable UV-stable curing compound that complies with ASTM C309 may be applied after 24 hours. A non-staining evaporation controller such as BRICKFORM Evaporation Retarder™ or sealer may need to be applied sooner in locations where high heat and low humidity are present.

EFFLORESCENCE • Efflorescence may appear on the concrete surface as a white powder. This is caused by water evaporation, which is more noticeable on colored concrete and can make it look faded. The residue must be removed as soon as it is practicable, but before it turns into calcium carbonate, which is permanent. This can be removed with a gentle cleaner such as with BRICKFORM Antique Release/Efflorescence Remover™ and must be done prior to sealing the concrete surface. Be sure to test in a small area, according to the instructions in the *BRICKFORM Antique Release/Efflorescence Remover Technical Information Sheet*.

SEALING • After the concrete has been allowed to cure for 28 days, protect the surface with BRICKFORM Gemseal™ or Polyseal™-High-Gloss Sealer, BRICKFORM Masterseal™-Abrasion-Resistant Sealer, or BRICKFORM Satinseal™-Water-Based, Semi-Gloss Sealer.

MAINTENANCE • The sealed surface should be inspected periodically for areas of thin or traffic-worn sealer and reapplied as needed. If traces of efflorescence are present, this should first be eliminated with a gentle cleaner such as BRICKFORM Antique Release/Efflorescence Remover™, according to the *BRICKFORM Antique Release/Efflorescence Remover Technical Information Sheet*.

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 manufacturer 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. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven to be defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

PLAN SPECIFICATION

BRICKFORM® Liquid Color™ Suggested Short Form Specification:

All concrete designated as being integrally colored in the plans and specifications, shall be colored with _____ color. The concrete shall contain _____ sacks of cement per cubic yard. No calcium chloride shall be used. The slump shall not exceed 4 inches. The concrete shall never be covered with plastic sheeting. All mix design, batching, addition of the colorant, placing, finishing and curing shall be in accordance with the *BRICKFORM Liquid Color Technical Information Sheet*. After the concrete has been allowed to cure for 28 days, all surfaces shall be sealed with BRICKFORM Gemseal™ or Polyseal™-High-Gloss Sealer, BRICKFORM Masterseal™-Slip-Resistant Sealer, or BRICKFORM Satinseal™-Water-Based Semi-Gloss Sealer in accordance with their corresponding Technical information Sheet. All products shall be manufactured by BRICKFORM, 800-483-9628, Rancho Cucamonga, CA 909-484-3399.

ORDER SPECIFICATIONS

Product

Liquid Color

Shipping Weight*

Container Size*

* Weights and container size will vary, depending on the cement content in each cubic yard of concrete and the color chosen. Please contact Customer Service for exact weights and sizes.

| Item No. | Color | Item No. | Color |
|----------|----------------|----------|----------------|
| LC-2310 | Mesa Buff | LC-2165 | Coffee |
| LC-2115 | Aspen | LC-2170 | Phoenix Tan |
| LC-2120 | Pewter | LC-1015 | Blush Beige |
| LC-2225 | Charcoal | LC-1090 | Sun Buff |
| LC-0310 | Cream Beige | LC-0250 | Oyster White |
| LC-2230 | Desert Sand | LC-2275 | Porcelain Gray |
| LC-2235 | Terra Cotta | LC-2280 | French Gray |
| LC-2240 | Brick Red | LC-2285 | Dark Gray |
| LC-2245 | Limestone | LC-2390 | Willow Green |
| LC-2250 | Sombrero Buff | LC-2295 | Dusty Mauve |
| LC-2255 | Coachella Sand | LC-2200 | Quarry Red |
| LC-2360 | San Diego Buff | LC-2350 | Sedona Red |