

MasterColor[®] 50 SB

Custom Blended Liquid-Coloring Admixture for Architectural and Decorative Concrete

Description

MasterColor 50 SB admixture is a ready-to-use integral, custom blended liquid-coloring admixture.

MasterColor 50 SB liquid-coloring admixture is a combination of MasterColor 50 SB primary liquid colors that are used to make a wide range of concrete colors.

Applications

Recommended for use in:

- Ready-mixed concrete
- Integrally colored decorative concrete
- Architectural concrete products
- Precast/prestressed concrete
- Stone veneer products
- Manufactured concrete products

Features

- Custom blend of MasterColor primary liquid colors to match customer specific color concrete projects
- Formulated for CAM (Coloring Admixture Measuring) System dispensing either at the job site or concrete batch plant
- Used with Master Builders Solutions' high performance admixtures in the production of durable decorative concrete
- Faster dispersion into concrete

Benefits

- Beautiful, long-lasting integrally colored concrete
- Enhanced finishing characteristics
- Color vibrancy
- Excellent color accuracy
- Batch-to-batch color consistency
- Verifiable color batching results
- Increased productivity and reduced labor
- Clean and simple batching
- Quality custom color services
- Single source producer support for chemical and coloring admixtures

Typical Properties : Density 14 to 16 lb/gal (1.68 to 1.92 kg/L) [@ 72 °F (22 °C)]

Guidelines for Use

Dosage: The dosage of MasterColor 50 SB liquid-coloring admixture is dependent on the specific color desired, and it can be programmed into the CAM System as required.

MasterColor 50 SB liquid-coloring admixture is water neutral at loading rates of 5% or less. At loading rates greater than 5%, MasterColor 50 SB liquid-coloring admixture may provide increased water reduction depending on local concrete materials. Therefore, at loading rates above 5%, laboratory/field evaluations of MasterColor 50 SB liquid-coloring admixture are recommended to verify desired concrete performance.

Mixing: With the automated CAM System, MasterColor 50 SB liquid-coloring admixture is weighed or metered and dispensed prior to or during batching of concrete. Product and rinse water are calculated by the CAM System and should be included as total batch water. For best results, add MasterColor 50 SB liquid-coloring admixture prior to batching concrete. For post addition, mix a minimum of 4 to 5 minutes at normal mixing speed to assure uniformity.

For best results, the truck or mixer should be clean and pre-wet with no standing water. A minimum batch size equal to 1/3 of the mixer capacity should be used as a guideline for efficient mixing. Keeping the addition order, mixing time, materials and water-cement ratio constant between multiple batches is critical for color consistency.

General: Due to the graying effect of most cements, there are some custom colors that can only be produced by using very light or white cements. Variations in water content, cement type, color variations in cementitious materials or aggregates, finish texture, timing of operations, curing or forming methods, release agents or surface treatments may produce distinct, though in many cases slight, variations in final color. All standard color matches are completed using a medium shade of portland cement.

Concrete Placement and Finishing: Final color and textures should be pre-approved with a cured jobsite mock up. In accordance with proper construction practices, slabs-on-ground shall be placed over properly compacted and prepared subgrade. Spade formed edges and consolidate and strike off surface as normal. Care should be taken to avoid over-vibration, over-working and over-finishing, or other practices that might cause excessive bleeding or significantly increase the surface mortar content.

Trowelling or broom-finishing decorative concrete should be performed in the same direction to maintain uniform appearance. Do not add additional water to the concrete either by retempering or by adding water to the surface during the finishing process.

Curing: Proper curing of decorative concrete is required to enhance the depth of color, provide a more uniformly colored concrete, and provide surface protection. MasterKure® CC 1315 water-based curing and sealing compound from Master Builders Solutions is recommended or a compatible curing and sealing compound.

Note: Until decorative concrete is fully cured, the color may appear darker than expected. Curing with burlap, plastic sheeting, water or other curing compounds may be detrimental to color uniformity and is not recommended. For more information on curing decorative concrete contact your local sales representative.

Maintenance: Regular cleaning of decorative concrete is recommended. In general, resealing may be desired periodically as the sealed surface wears. Maintenance applications will be accelerated in areas of heavy use or frequent or aggressive cleaning. Heavily soiled interior areas may be cleaned by wet mopping or scrubbing with a stiff-bristle brush and properly diluted, high-quality commercial detergent. For large areas, automatic scrubbers may be more efficient and cost effective.

Clean-Up: MasterColor 50 SB liquid-coloring admixture is water based and can be cleaned with soap and water.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterColor 50 SB liquid-coloring admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete. No calcium chloride or chloride-based ingredients are used in the manufacture of these products. Complete safety information can be found on the MasterColor 50 SB Safety Data Sheet.

Compatibility: MasterColor 50 SB liquid-coloring admixture is compatible with most admixtures used in the production of quality concrete. Mineral additives may affect color and should be checked for potential adjustments. All other admixtures should be dispensed into the concrete separately. The use of calcium chloride accelerators is not recommended in decorative concrete. Final color and texture should be verified with a cured jobsite mock-up.

Storage and Handling

Storage Temperature: MasterColor 50 SB liquid-coloring admixture should be stored between 40 and 100 °F (4 and 38 °C) with regular mixing or recirculation. To prevent pigment sedimentation, recirculate the material every 90 days or less. Always mix material well prior to use. Automated recirculation is included with the CAM System. If MasterColor 50 SB liquid-coloring admixture freezes, contact your local sales representative.

Shelf Life: MasterColor 50 SB liquid-coloring admixture has a minimum shelf life of 6 months if properly stored (see handling and storage requirements above).

Packaging

MasterColor 50 SB liquid-coloring admixture is available in 50 lb pails and 3350 lb (1520 kg) net returnable totes.

Related Documents

Safety Data Sheets: MasterColor 50 SB

Additional Information

For additional information on MasterColor 50 SB liquid-coloring admixture, contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

Limited Warranty Notice

Master Builders Solutions Admixtures US, LLC ("Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

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