

# MasterColor<sup>®</sup> 90 PB

## Iron Oxide Black Liquid-Coloring Admixture

### Description

MasterColor 90 PB is a ready-to-use specially formulated iron oxide black liquid-coloring admixture used to produce precast concrete.

### Applications

Recommended for use in:

- Integrally colored architectural concrete
- Precast concrete

### Features

- Liquid-coloring admixture formulated for the automated CAM (Coloring Admixture Measuring) System
- Used with Master Builders Solutions' performance admixtures in the production of durable architectural 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 and verifiable color batching results
- Increased productivity and reduced labor
- Clean and simple batching
- Quality custom color services
- Single source producer support for chemical, mineral and coloring admixtures

### Guidelines for Use

**Dosage:** Color formulas for standard Master Builders Solutions liquid colors and other non-standard liquid colors are programmed into the CAM System upon installation. They are weighed or metered and dispensed as a percentage of cementitious materials. Contact your local sales representative for dosage rates.

**Mixing:** With the automated CAM System, MasterColor 90 PB liquid-coloring admixture is weighed or metered and dispensed prior to or while loading concrete. Water in the product and rinse water are calculated by the CAM System and should be included in the total batch water. For best results, add coloring admixtures prior to batching concrete. For post addition, mix a minimum of 4 to 5 minutes at mixing speed to assure uniformity.

For best results, truck or mixer should be clean and prewet 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-cementitious materials ratio constant between multiple batches is critical to color consistency.



**General:** Variations in water content, cement type, supplementary cementitious materials, color of cementitious materials and aggregates, finish texture, timing of operations, curing or forming methods, release agents or surface treatments may each produce distinct, though in many cases slight, variations in final color.

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

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.

**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 90 PB liquid-coloring admixture is water-based and can be cleaned with soap and water.

## Product Notes

**Corrosivity – Non-Chloride, Non-Corrosive:** MasterColor 90 PB 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 this product. Complete safety information can be found on the MasterColor 90 PB Safety Data Sheet.

**Compatibility:** MasterColor 90 PB liquid-coloring admixture is compatible with most of the other admixtures used in the production of quality concrete. Supplementary cementitious materials may affect color and should be checked for impact on color. All other admixtures should be dispensed into the concrete separately. The use of calcium chloride accelerators is not recommended in concrete treated with MasterColor 90 PB liquid-coloring admixture. Final color and texture should be verified with a cured jobsite mock-up.

## Storage and Handling

**Storage Temperature:** MasterColor 90 PB 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. If MasterColor 90 PB liquid-coloring admixture freezes, contact your local sales representative.

**Shelf Life:** MasterColor 90 PB liquid-coloring admixture has a minimum shelf life of 12 months if properly stored.

## Packaging

MasterColor 90 PB liquid-coloring admixture is available in 3,350 lb (1,520 kg) net returnable totes.

## Related Documents

Safety Data Sheets: MasterColor 90 PB liquid-coloring admixture

## Additional Information

For additional information on MasterColor 90 PB liquid-coloring admixture or its use as part of an admixture system, 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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