

MasterColor® 14 CB

Carbon Black Liquid-Coloring Admixture

Description

MasterColor 14 CB is a ready-to-use carbon black liquid-coloring admixture used to produce concrete in varying shades from light gray to black.

Applications

Recommended for use in:

- Integrally colored architectural concrete
- Ready-mixed concrete

Features

- Carbon black liquid-coloring dispersion formulated for the automated CAM (Coloring Admixture Measuring) System from BASF
- High tinting strength

Benefits

- Cost-effective liquid black dispersion
- Enhanced color vibrancy
- Batch-to-batch color consistency
- Increased plant productivity and reduced labor
- Clean and simple
- Verifiable color batching results
- Faster dispersion into concrete
- Single source producer support for chemical, mineral and coloring admixtures

Limitations

Like all carbon black products for concrete, MasterColor 14 CB liquid-coloring admixture is subject to fading when exposed to weathering and repeated wetting and drying. MasterColor 14 CB coloring admixture is not recommended for use in air-entrained concrete. MasterColor® L Black liquid-coloring admixture should be utilized in air-entrained concrete and concrete exposed to cycles of wetting and drying. MasterColor 14 CB coloring admixture should not be intermixed with standard MasterColor® liquid-coloring admixtures.

Physical Properties

| | |
|---------------------------------------|------------------------|
| Density* | 9.6 lb/gal (1.15 kg/L) |
| Viscosity*, Brookfield #4 @ 60 rpm | 1500-2000 cP |

* @ 72 °F (22 °C)

Guidelines for Use

Dosage: Color formulas for standard MasterColor colors and other regional colors are programmed into the BASF 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 BASF CAM System, MasterColor 14 CB liquid-coloring admixture is weighed or metered and dispensed prior to or while loading concrete. Product and rinse water are calculated by the CAM System and should be included in the total batch water. For best results add coloring dispersions prior to concrete. For post addition, mix a minimum of 4-5 minutes at mixing speed to ensure 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, color variations in cementitious materials or 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. All 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 should 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. BASF's MasterKure® CC 1315 water-based curing and sealing compound or a compatible curing and sealing compound is recommended.

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 14 CB liquid-coloring admixture is water-based and can be cleaned with soap and water.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: MasterColor 14 CB 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 14 CB Safety Data Sheet.

Compatibility: MasterColor 14 CB liquid-coloring admixture is compatible with most other admixtures used in the production of quality concrete with the exception of air-entraining admixtures. Mineral admixtures 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 concrete treated with MasterColor 14 CB liquid-coloring admixture. Final color and texture should be verified with a cured jobsite mock-up.

Storage and Handling

Storage Temperature: MasterColor 14 CB liquid-coloring admixture should be stored between 40 and 100 °F (4 and 38 °C). Always mix material prior to use. If MasterColor 14 CB coloring admixture freezes, contact your local sales representative.

Shelf Life: MasterColor 14 CB liquid-coloring admixture has a minimum shelf life of 12 months if stored properly.

Packaging

MasterColor 14 CB liquid-coloring admixture is available in 2,500 lb (1,134 kg) net returnable totes.

Related Documents

Safety Data Sheets: MasterColor 14 CB liquid-coloring admixture

Additional Information

For additional information on MasterColor 14 CB liquid-coloring admixture or its use as part of an admixture system, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

Limited Warranty Notice

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