

MasterColor[®] 1 Tint

For Enhanced Color Uniformity of Integrally Colored Concrete

Description

The MasterColor 1 Tint system enhances the color uniformity and appearance of either newly placed and cured or existing integrally colored concrete surfaces, such as decorative concrete. The MasterColor 1 Tint system is a two-component, engineered system from Master Builders Solutions consisting of MasterColor 1 Tint product (Part A) and MasterKure[®] CC 1315 water-based acrylic curing and sealing compound (Part B).

MasterColor 1 Tint product is available in the 50 standard colors that are offered on the MasterColor Decorative Concrete Color Selector.

Applications

Recommended for use in:

- Integrally colored decorative concrete flatwork
- Colored architectural precast concrete elements

Features

- Easy-to-use, two-component, engineered system for color tint sealing of concrete surfaces
- Can be applied on newly placed and cured or existing integrally colored concrete surfaces produced with MasterColor liquid-coloring admixtures from Master Builders Solutions

Benefits

- Enhances color uniformity and surface appearance of newly placed and cured or existing integrally colored concrete surfaces, such as decorative concrete flatwork
- Enhances the color vibrancy of faded decorative concrete
- Reduces color variations in decorative concrete flatwork and integrally colored architectural precast concrete elements
- Reduces decorative concrete maintenance costs

Guidelines for Use

The decorative concrete should be cured after final finishing operations are complete and the surface can no longer be marred by foot traffic. Proper curing of decorative concrete flatwork helps to efficiently retain moisture of newly placed concrete, ensure proper strength development and minimize shrinkage cracking. MasterKure CC 1315 curing and sealing compound from Master Builders Solutions can be used to cure the decorative concrete (refer to MasterKure CC 1315 product data sheet for additional information).

Color tint sealing should take place 14-28 days after initial curing or when the concrete has dried sufficiently, whichever comes first, and after all dirt, dust and foreign materials are removed from the concrete surface. For decorative concrete that has not been previously cured, two sealing coats with the MasterColor 1 Tint system may be applied to obtain the desired look.

Application Procedure for applying the MasterColor 1 Tint system:

1. The integrally colored concrete surface is application-ready when it is clean and dry. Do not apply MasterColor 1 Tint system if the concrete has been exposed to rain or other precipitation over the previous 7 days, or if rain or other precipitation is forecasted within 72 hours after application.
2. Read the label of the MasterColor 1 Tint product bottle in the carton to verify that the color tint name matches the name of the MasterColor liquid-coloring admixture used in the concrete.
3. Remove one 16 fl oz (473 mL) bottle of MasterColor 1 Tint product from the carton and shake the bottle for two minutes. One bottle of MasterColor 1 Tint product will treat a 4-gal (15.1 L) pail of MasterKure CC 1315 curing and sealing compound.
4. Open the 4-gal (15.1 L) pail of MasterKure CC 1315 curing and sealing compound and slowly pour one 16 fl oz (473 mL) bottle of MasterColor 1 Tint product into the 4 gal (15.1 L) pail of MasterKure CC 1315 curing and sealing compound. Mix slowly and thoroughly using a metal mixing paddle fitted onto a slow speed drill until the color is uniform and the product appears consistent. During mixing, the metal paddle should be moved up and down and around the sides of the pail. Mixing at high speeds is not recommended as it will entrain air and make the MasterColor 1 Tint system foamy. If this occurs, wait until the foam has dissipated to apply the sealing system. **Hand mixing is not recommended and can impact the final concrete surface color.**
5. Apply MasterColor 1 Tint system using an airless low pressure sprayer of professional quality with a variable output of 1,500 to 3,000 psi (10 to 20 MPa). The airless sprayer must be fitted with a nozzle tip of 0.013 to 0.015 in. (0.33 to 0.38 mm) to apply a fine mist spray of material. Another option is to apply the MasterColor 1 Tint system using a short nap roller with a maximum pile depth of 3/8 in. (10 mm). Alternatively, a Hudson Industro or equivalent canister sprayer with a number 8004 tip or equivalent designated for water-based products may be used. Do not use a "home/garden" sprayer as it will result in over-application.
6. Apply the material evenly and uniformly. The MasterColor 1 Tint system will provide a semi-gloss surface appearance. Note – Uneven and/or heavy application can result in surface color variations, a cloudy or milky appearance or lap marks. Uneven and/or heavy application may need to be rolled out using a short nap roller with a maximum pile depth of 3/8 in. (10 mm).
7. For decorative concrete that has not been cured, two coats of the MasterColor 1 Tint system may be applied to obtain the desired look.
8. The MasterColor 1 Tint system may retain a white appearance for extended periods, depending on temperature variations, when applied at temperatures below 50 °F (10 °C). This condition is temporary. Warmer temperatures will allow the material to dry clear.
9. Allow the concrete to dry completely before placing it in service. The MasterColor 1 Tint system will require the following drying times assuming an ambient temperature between 65 and 85 °F (18 and 29 °C) and 50% relative humidity. Lower temperatures and/or higher humidity will increase drying times.
 - 3 hours (approximate) – ready for light foot traffic
 - Overnight – ready for normal traffic
 - 7 days – maximum hardness

Coverage Rates

The MasterColor 1 Tint system consists of one 16-fl oz (473-mL) bottle of MasterColor 1 Tint product and one 4-gal (15.1-L) pail of MasterKure CC 1315 curing and sealing compound. The coverage rate for MasterColor 1 Tint system is:

200 - 400 ft²/gal (4.9 - 9.8 m²/L) – first coat

400 - 600 ft²/gal (9.8 - 14.6 m²/L) – second coat
(if not previously cured)

Note: Sealing rates are approximate. Coverage varies with texture and porosity of the decorative concrete surface; actual surface profile will determine exact coverage rate. Results may vary for hard-troweled or ultra smooth finishes.

Product Notes

Compatibility: The MasterColor 1 Tint system is compatible with newly placed and cured or existing integrally colored concrete produced with MasterColor liquid-coloring admixtures from Master Builders Solutions. For best results on decorative concrete flatwork applications, final concrete surface texture and color should be verified using a jobsite mock-up made with the MasterColor 1 Tint system. Alternatively, test the MasterColor 1 Tint system and intended application method on a small sample area before applying it to the entire project. Consult your local sales representative with any questions or concerns prior to application of MasterColor 1 Tint system.

Concrete Maintenance: Regular cleaning of concrete surfaces treated with the MasterColor 1 Tint system is recommended. The treated surface can be cleaned with soap and water. For decorative concrete flatwork areas, clean the surface 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.

Storage and Handling

Storage Temperature: MasterColor 1 Tint product (Part A) and MasterKure CC 1315 curing and sealing compound should be stored between 40 and 100 °F (4 and 38 °C) prior to use. If MasterColor 1 Tint product (Part A) or MasterKure CC 1315 curing and sealing compound freeze, contact your local sales representative.

Shelf Life: When properly stored, MasterColor 1 Tint product (Part A) has a shelf life of two years and MasterKure CC 1315 curing and sealing compound has a shelf life of one year.

Packaging

MasterColor 1 Tint product (Part A) and MasterKure CC 1315 curing and sealing compound (Part B) are packaged separately.

Four 16 fl oz (473 mL) plastic bottles of MasterColor 1 Tint product are packaged in a cardboard carton. MasterKure CC 1315 curing and sealing compound is packaged in 4-gal (15.1 L) pails.

Related Documents

Safety Data Sheets:

- MasterColor 1 Tint product
- MasterKure CC 1315 water-based acrylic curing and sealing compound

Product Data Sheet:

- MasterKure CC 1315 water-based acrylic curing and sealing compound

Additional Information

For additional information on MasterColor 1 Tint system, contact your local sales representative.

Master Builders Solutions, a brand of MBCC Group, is a global leader of innovative chemistry systems and formulations for construction, maintenance, repair and restoration of structures. The Admixture Systems business provides advanced products, solutions and expertise that improve durability, water resistance, energy efficiency, safety, sustainability and aesthetics of concrete structures, above and below ground, helping customers to achieve reduced operating costs, improved efficiency and enhanced finished products.

Utilizing worldwide resources, the Master Builders Solutions community of experts are passionate about providing solutions to challenges within all stages of construction, as well as the life cycle of a structure. At Master Builders Solutions we create sustainable solutions for construction around the globe.

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