

1. Product Name

- Mortamix® Rainbow Custom Color Cement-Lime™ blend

2. Manufacturer

Holcim (US) Inc.
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Chicago, IL 60631
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3. Product Description

Usage

Mortamix® Rainbow Custom Color Cement-Lime™ blend is available in a variety of colors that offer design flexibility and enhance the aesthetic effect of brick, block and stone masonry. The product is a pre-measured mixture of cement and hydrated lime manufactured to be used in producing masonry mortars for use in brick, block and stone masonry units.

Composition and Materials

Mortamix® Rainbow Custom Color Cement-Lime™ blend is a combination of cement, Type S hydrated mason's lime and inorganic oxide pigments. The above ingredients are combined and processed at Holcim (US) Inc. manufacturing facilities under controlled conditions to ensure uniform conformance.

Types

Mortamix® Rainbow Custom Color Cement-Lime™ blend is pre-mixed to meet ASTM C270 cementitious proportion requirements for Type N, Type S, Type M or Type O mortars.

Type N is recommended for general purpose light construction, such as above-grade walls and stucco. Type S is used in construction where strong lateral and compressive forces are anticipated. It is most commonly used in commercial construction, stone masonry and exterior stucco. Type M is suited for foundations, manholes and other extreme moisture and freeze-thaw environments. Type O is recommended for interior and limited exterior use in non-load bearing walls. It is often specified for use in historical masonry restoration where through wall permeability or damage to older weak brick are of a concern.



Sizes

Mortamix® Rainbow Custom Color Cement-Lime™ blend is available in the following packaging sizes (bags):

- **Type O** 32 kilogram (70.5 pound)
- **Type N** 32 kilogram (70.5 pound)
- **Type S** 34 kilogram (75 pound)
- **Type M** 36 kilogram (79.4 pound)

Colors

Mortamix® Rainbow Custom Color Cement-Lime™ blend is available in many standard colors, including white. In addition, colors can be custom formulated under laboratory conditions to match desired customer specifications.

4. Technical Data

Applicable Standards

- **ASTM C144** Standard Specification for Aggregate for Masonry Mortar
- **ASTM C207** Standard Specification for Hydrated Lime for Masonry Purposes
- **ASTM C270** Standard Specification for Mortar for Unit Masonry

Physical / Chemical Properties

Each type of Mortamix® Rainbow Custom Color Cement-Lime™ blend conforms to the cementitious proportion requirements of ASTM C270

- Type O, Type N, Type S or Type M Cement-Lime are used to produce ASTM C270 Type O, Type N, Type S or Type M mortars, respectively
- Requirements for sand to be used in conjunction with these products are outlined in ASTM C144

5. Installation

Preparatory Work

Mortamix® Rainbow Custom Color Cement-Lime™ blend should be mixed according to ASTM C270. Machine mixing is highly recommended. Mixing instructions are printed on each bag and shown below:

- Use 1 bag Mortamix® Rainbow Custom Color Cement-Lime™ to 2-1/4 to 3 parts damp loose sand by volume. Sand requirements are outlined in ASTM C144.

Batching Sequence:

- First add approximately 3/4 of the desired volume of mix water; then add 1/2 the sand followed by 1 bag of Mortamix® Rainbow Custom Color Cement-Lime™ to the mixer.
- Finally, add the rest of the sand and remaining mix water sufficient to achieve the desired field workability.
- The combined materials should be mixed 3-5 minutes after all materials are in the mixer.

Precautions

- Never change sand sources or mortar mixture proportion volumes during the project; undesirable color changes and performance changes to the finished product could result.
- Holcim (US) Inc. does not recommend the use of any other additives or admixtures.
- Tool all joints to the same degree of firmness in a uniform consistent manner.
- Avoid excessive re-tempering, which could result in color variations.
- Protect masonry units from weather before and after they are set in place.
- Holcim (US) Inc. does not recommend the use of acid-based cleaning solutions.
- To verify finished appearance, Holcim (US) Inc. always recommends that a job specific sample panel be erected; using the same sand, masonry units and construction practice used on your project.

Safety Precautions

Refer to the applicable Safety Data Sheet (SDS), which should be consulted prior to the use of this product. These SDS's are available at www.holcim.us.

Avoid direct contact with the skin. If contact occurs, wash skin with water as soon as possible. Exposure of sufficient duration to Cement-Lime can cause serious and potentially irreversible tissue destruction in the form of chemical burns. If Cement-Lime gets into the eyes, immediately flush eyes thoroughly with water and seek medical attention. Proper PPE is always required.

Storage and Handling

Packaged Cement-Lime blends needing to be temporarily stored on construction sites should be stored above the ground on pallets or other means that allow airflow between the ground and the stored packaged material. Tarps or polyethylene sheeting should cover the material when not in use to prevent moisture, precipitation or high humidity from coming in contact with the bags. Prevent storage directly against walls or other structures and allow pallets to have an adequate space to allow for air circulation to reduce moisture accumulations. Construction sites and weather conditions vary and further measures may be required to protect products from moisture.

6. Availability and Cost

Availability: Mortamix® Rainbow Custom Color Cement-Lime™ blend is regionally available. Contact the nearest Holcim (US) Inc. sales office for availability in your area.

Cost: Pricing information can be obtained from the nearest Holcim (US) Inc. sales office.

7. Warranty

Upon request, Holcim (US) Inc. can provide Material Certification Reports demonstrating that Mortamix® Rainbow Custom Color Cement-Lime™ meets applicable ASTM standards. Holcim (US) Inc. will not guarantee finish work, having no control over the use of this product. Holcim (US) Inc. shall not be responsible for condition of cement after delivering to dealer or distributor.

8. Technical Services

Technical service is available by contacting the nearest Holcim (US) Inc. sales office at (888) 646-5246.

For questions on any technical information contained in the document, contact a Holcim (US) Inc. Technical Services Engineer for further detail.

9. Filing Systems

Additional product information is available from the manufacturer.

Corporate Headquarters

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