

1. Product Name

- Mortamix® Rainbow Custom Color Cement-Lime™

2. Manufacturer

Holcim (US) Inc.
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3. Product Description

Basic Use

Mortamix Rainbow Custom Color Cement-Lime™ 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 brick, block and stone masonry units.

Composition and Materials

Mortamix Rainbow Custom Color Cement-Lime 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 manufacturing facilities under controlled conditions to ensure uniform performance.

Types

Rainbow Mortamix Custom Color Cement-Lime is pre-mixed to meet the cementitious proportion requirements of ASTM C270 for Type O, Type N, Type S and Type M 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

Holcim Mortamix Rainbow Custom Color Cement-Lime 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

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

Benefits

- Offers design flexibility
- Provides working properties, strength and durability for lasting masonry structures
- Pre-mixed under controlled conditions to ensure exact proportions and uniform performance

4. Technical Data

Applicable Standards

ASTM International

- **ASTM C144** Standard Specification for Aggregate for Masonry Mortar
- **ASTM C150** Standard Specification for Portland Cement
- **ASTM C207** Standard Specification for Hydrated Lime for Masonry Purposes
- **ASTM C270** Standard Specification for Mortar for Unit Masonry
- **ASTM C595** Standard Specification for Blended Hydraulic Cements
- **ASTM C1157** Standard Specification for Hydraulic Cement

Physical/Chemical Properties

Each type of Cement-Lime conforms to the cementitious proportion requirements of ASTM C270

- Type O, Type N, Type S and Type M Cement-Limes 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
- Cement-Lime is formulated to provide consistent workability, strength, durability and a pleasing final aesthetic appearance

5. Installation

Preparatory Work

Mortamix Rainbow Custom Color Cement-Lime 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 Holcim Rainbow Custom Color Cement-Lime to 2¼ to 3 parts damp loose sand by volume. Sand requirements are outlined in ASTM C144
- First add approximately ¾ of the desired volume of mix water, then add ½ the sand followed by 1 bag of Holcim 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 for 3–5 minutes after all materials are in the mixer

Precautions

Performance

- Never change sand sources or mortar mixture proportion volumes during the project
- Holcim does not recommend the use 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 does not recommend the use of acid-based cleaning solutions
- To verify finished appearance, Holcim always recommends that a job specific sample panel be erected; using the same sand, masonry units and construction practice used on your project

Safety

Avoid direct contact with the skin. If contact occurs, wash skin with water as soon as possible. Exposure of sufficient duration to wet Holcim 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. For more complete information, reference is made to the applicable Safety Data Sheets (SDS), which should be consulted prior to use of this product. These SDS are available at www.holcim.us.

6. Availability and Cost

Availability: Mortamix Rainbow Custom Color Cement-Lime is available throughout most of the United States. Contact the manufacturer about local availability.

Cost: Pricing information can be obtained from the nearest Holcim Sales Office at (888) 646-5246.

7. Warranty

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

8. Maintenance

In areas where cleaners and sealers are used, proper maintenance instructions should be followed. Contact the appropriate product manufacturer before application.

9. Technical Services

Technical service is available by contacting the nearest Holcim Sales Office at (888) 646-5246. With advance notice, technical service can be provided at jobsite locations.

For questions on any technical information contained in this document, contact a Holcim Technical Service Engineer for further detail.

10. Filing Systems

Additional product information is available from the manufacturer.

Corporate Headquarters

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