

1. Product Name

- Mortamix® Rainbow Custom Color Masonry Cement™

2. Manufacturer

Holcim (US) Inc.
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3. Product Description

Basic Use

Mortamix Rainbow Custom Color Masonry Cement is a formulated cementitious material manufactured to be used in producing masonry mortars for brick, block and stone masonry units. Mortamix Rainbow Custom Color Masonry Cement also can be used to produce stucco, a versatile facing material that can be applied to wall or ceiling surfaces to achieve special architectural finishes. Mortamix Rainbow Custom Color Masonry Cement can be custom blended to color match and/or complement any architectural accent or specified masonry unit.

Composition and Materials

Mortamix Rainbow Custom Color Masonry Cement is a combination of portland cement, plasticizers, ground limestone, air entraining additives and inorganic oxide color pigments. The above ingredients are combined and processed at Holcim US manufacturing facilities under controlled conditions to ensure uniform color and performance.

Types

Mortamix Rainbow Custom Color Masonry Cement is produced to meet ASTM C91 Standard Specifications requirements for Type N, Type S or Type M masonry cements. When mixed with proper proportion of sand meeting ASTM C144 and clean water, the resulting mortar conforms to the property specifications of ASTM C270 for Type N, Type S or Type M Mortar.

While climate conditions, exposure and engineering requirements must be considered, Type N mortar, 5 MPa (750 psi), is recommended for above-grade interior and exterior load-bearing and non-load-bearing walls. Types S and M mortars are a higher compressive strength of 12 and 17 MPa (1800 and 2500 psi), respectively, and are recommended for below grade walls and load-bearing walls where higher compressive strengths are needed.



Rainbow Custom Color Masonry used on Naples Daily News Building

Sizes

Mortamix Rainbow Custom Color Masonry Cement is available in the following packaging sizes (bags):

- **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 Masonry Cement is available in many standard colors, including white. In addition, colors can be custom formulated under laboratory conditions to match desired customer specifications.

Benefits

- Provide consistent strength, durability and workability
- Helps create a pleasing appearance

4. Technical Data

Applicable Standards

ASTM International

- **ASTM C91** Standard Specification for Masonry Cement
- **ASTM C144** Standard Specification for Aggregate for Masonry Mortar
- **ASTM C270** Standard Specification for Mortar for Unit Masonry



Physical/Chemical Properties

Each type of Mortamix Rainbow Custom Color Masonry Cement conforms to ASTM C91

- Types N, S or M Mortamix Rainbow Custom Color Masonry Cements are used to produce ASTM C270 Type N, Type S or Type M mortars, respectively
- Requirements for sand to be used in conjunction with this product are outlined in ASTM C144
- Mortamix Rainbow Custom Color Masonry Cement is formulated to provide consistent strength, durability and workability as well as a pleasing final aesthetic appearance

5. Installation

Preparatory Work

Mortamix Rainbow Custom Color Masonry Cement 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 Masonry Cement 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 Mortamix Rainbow Custom Color Masonry Cement 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
- 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 Mortamix Rainbow Custom Color Masonry Cement can cause serious and potentially irreversible tissue destruction in the form of chemical burns. If Mortamix Rainbow Custom Color Masonry Cement 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 Masonry Cement is available throughout most of the United States. Contact the manufacturer for information about local availability.

Cost: Pricing information can be obtained from the nearest Holcim Sales Office.

7. Warranty

Upon request, Holcim US can provide Material Certification Reports demonstrating that Mortamix Rainbow Custom Color Masonry Cement 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 delivering to 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

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