



1. Product Name

- Holcim Mortamix® Rainbow Custom Color Masonry Cement™

2. Manufacturer

Holcim (US) Inc.
 6211 North Ann Arbor Road
 P.O. Box 122
 Dundee, MI 48131
 (888) 646-5246
 (734) 529-2411
 Fax: (734) 529-4110
 www.holcim.us

3. Product Description

BASIC USE

Holcim Mortamix Rainbow Custom Color Masonry Cement is part of Holcim's Envirocore™ family of environmentally friendly products. Envirocore products may contain pre-consumer recycled materials or their manufacture may use less energy than a comparable blended cement-lime. Use of these materials may contribute to achieving points or credits in LEED® or other green building assessment systems.

Holcim Mortamix Rainbow Custom Color Masonry Cement is scientifically formulated and manufactured to be used in producing masonry mortars for use in brick, block and stone masonry. Holcim 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. Holcim Mortamix Rainbow Custom Color Masonry Cement can be custom blended to match, contrast with or complement the colors of specified masonry materials (e.g. bricks, block and stone).

COMPOSITION & MATERIALS

Holcim Mortamix Rainbow Custom Color Masonry Cement is manufactured from portland cement, plasticizers, water retaining materials, air entraining additives and pigments. The pigments are inorganic oxides. The above ingredients are combined and

processed at Holcim manufacturing facilities under controlled conditions to ensure uniform performance.

TYPES

Holcim Mortamix Rainbow Custom Color Masonry Cement is produced to meet ASTM C 91 Type N, Type S or Type M strength levels to be used, respectively, in preparing Type N, S or M mortar that conforms to ASTM Standard Specification C 270.

In selecting mortar, climate conditions, exposure and engineering requirements must be considered.

- Type N - 5 MPa (750 psi), recommended for above-grade interior and exterior load-bearing and non-load bearing walls
- Type S - 12 MPa (1800 psi), recommended for walls below-grade and load bearing walls where higher compressive strength is needed
- Type M - 17 MPa (2500 psi), recommended for walls below-grade and load bearing walls where higher compressive strength is needed

SIZES

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

- Type N - 32 kg (70.5 lb)
- Type S - 34 kg (75 lb)
- Type M - 36 kg (79.4 lb)

COLORS

Holcim 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 C 91 Standard Specification for Masonry Cement
- ASTM C 144 Standard Specification for Aggregate for Masonry Mortar
- ASTM C 270 Standard Specification for Mortar for Unit Masonry

PHYSICAL/CHEMICAL PROPERTIES

- Each type of Holcim Mortamix Rainbow Custom Color Masonry Cement conforms to ASTM C 91



Rainbow Custom Color Masonry Cement

- Types N, S or M Holcim Mortamix Rainbow Custom Color Masonry Cements are used to produce ASTM C 270 Type N, Type S or Type M mortars, respectively
- Requirements for sand to be used in conjunction with this product is outlined in ASTM C 144
- Holcim 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

Holcim Mortamix Rainbow Custom Color Masonry Cement should be mixed according to ASTM C 270. Machine mixing is highly recommended. Mixing instructions are printed on each bag and shown below:

- Use 1 bag Holcim Mortamix Rainbow Custom Color Masonry Cement to 2 1/4 to 3 parts by volume of sand conforming to ASTM C 144
- First add approximately 3/4 of the water required, then add 1/2 the sand, and then 1 bag of Holcim Mortamix Rainbow Custom Color Masonry Cement to the mixer
- Finally, add the rest of the sand and sufficient water 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

- Each batch should be mixed precisely and consistently to achieve the desired color
- Never change sand sources or amounts during the project
- Do not use any other additives or admixtures
- Tool all joints to the same degree of firmness
- 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

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 Mortamix Rainbow Custom Color Masonry Cement can cause serious and potentially irreversible tissue destruction in the form of chemical burns. If Holcim Mortamix Rainbow Custom Color Masonry Cement gets into the eyes, immediately flush eyes thoroughly with water and seek medical attention. For more complete information, refer to the Material Safety Data Sheet (MSDS), which should be consulted prior to use of this product. The MSDS is available from the manufacturer upon request.

6. Availability & Cost

AVAILABILITY

Holcim Mortamix Rainbow Custom Color Masonry Cement is available throughout most of the United States. Contact Holcim about local availability.

COST

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

7. Warranty

Upon request, Holcim can provide Material Certification Reports demonstrating that Holcim Mortamix Rainbow Custom Color Masonry Cement meets or exceeds applicable ASTM standards. Holcim (US) Inc. 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.

10. Filing Systems

- SmartBuilding Index
- Additional product information is available from the manufacturer
- www.holcim.us

Corporate Headquarters

Holcim (US) Inc.
201 Jones Road
Waltham, MA 02451
(888) 646-5246

Corporate Office

6211 Ann Arbor Road
P.O. Box 122
Dundee, MI 48131
(888) 646-5246