

1. Product Name

- Masonry Cement

2. Manufacturer

Holcim (US) Inc.
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3. Product Description

Basic Use

Mortamix Masonry Cement is a formulated cementitious material manufactured to be used in producing masonry mortars for brick, block and stone masonry units. Mortamix 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.

Composition and Materials

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

Types

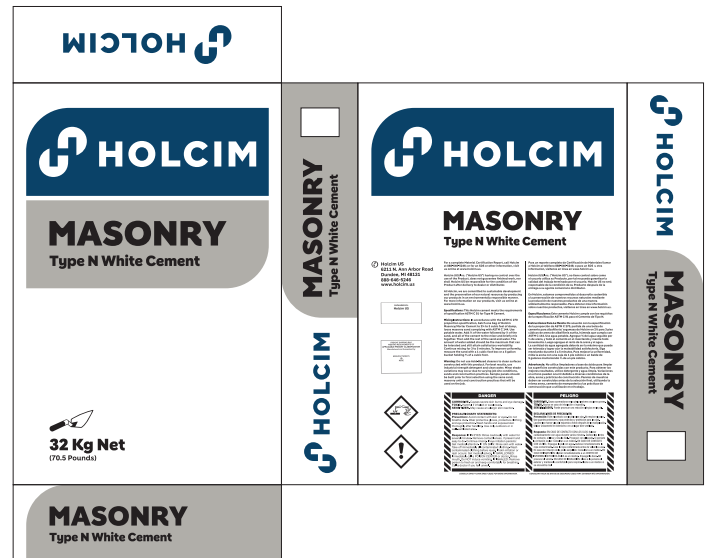
Mortamix Masonry Cement is produced to meet ASTM C91 Standard Specifications requirements for Type N, Type S or Type M masonry cements, respectively. When mixed with proper proportion of sand meeting ASTM C144 and clean water, the resulting mortar, conforms to the property specifications of ASTM C270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

Sizes

Mortamix 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 Masonry Cement is gray. Holcim also markets pigmented masonry products such as Holcim Mortamix® Rainbow Custom Color Masonry Cements™.

Benefits

- Provides consistent strength, durability and workability
- Helps create a pleasing aesthetic 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 Masonry Cement conforms to ASTM C91

- Type N, Type S and Type M Mortamix 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 these products are outlined in ASTM C144
- Mortamix Masonry Cement is formulated to provide consistent strength, durability and workability as well as pleasing final aesthetic appearance

5. Installation

Preparatory Work

Mortamix 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 Masonry Cement to 2-1/4 to 3 parts damp loose sand by volume. Sand requirements are outlined in ASTM C144
- First add approximately 3/4 of the desired volume of mix water; then add 1/2 the sand followed by 1 bag of Mortamix 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

Performance

- Never change sand sources or mortar mixture proportion volumes during the project
- Holcim US 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 does not recommend the use of acid-based cleaning solutions
- To verify finished appearance, Holcim US 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 Masonry Cement can cause serious and potentially irreversible tissue destruction in the form of chemical burns. If Mortamix 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

Storage and Handling

Packaged masonry cements needing to be temporarily stored on construction sites should be stored above the ground on pallets or other means that allows airflow between the ground and the stored packaged material. Tarps or polyethylene sheeting should cover the material when not in use to prevent moisture from 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 accumulation. Construction sites and weather conditions vary and further measures may be required to protect products from moisture.

6. Availability and Cost

Availability: Mortamix 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 at (888) 646-5246.

7. Warranty

Upon request, Holcim US can provide Material Certification Reports demonstrating that Mortamix 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 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 upon request

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