

USM

Masonry Products

Masons Mix Type O

Pre-Blended Mortar for Structural Rehabilitation Projects

DESCRIPTION

USM Masons Mix Type O is a mixture of masonry sand, type S lime and portland cement blended to meet ASTM C-270 specifications for type O mortar. Masons Mix Type O displays superior plasticity and bond properties which allow the joint to be tooled easily and efficiently. Type O mortars are typically used in structural rehabilitation projects where old and new mortar with similar properties must be used.

USES

Masons Mix Type O is typically used by the mason who is working on a pre-depression era building that needs rehabilitation work on the mortar joints and masonry system itself. It is important during these historic structural preservation projects to match the high lime content mortars used prior to the depression. Using similar mortars in tuckpointing or wall rehabilitation is essential for proper bond and consistent tensile strength throughout the masonry wall.

BENEFITS

- Outstanding Workability: Smooth spreading ability lends itself to a quality finish
- Product can be colored during manufacturing for an architecturally pleasing appearance.
- High Bond Strength: Integral lime penetrates masonry unit to crystallize and lock mortar units together
- Mortar Board Life: Lime allows for an extended board life
- Consistency: Pre-blended concept eliminates job-site problems of inconsistent mortar batches

STANDARDS

Masons Mix Type O meets ASTM C-270 specifications for type O mortar.

LIMITATIONS

Do not apply when the temperature is below 40°F (4°C) or when the temperature is expected to fall below 40°F within 24 hours. Do not apply over surfaces that are frozen or contain frost.

As with any cement based product, cold weather precautions must be implemented to prevent product

LIMITATIONS (Cont.)

from freezing before full hydration has taken place. Good masonry practices of job-site tenting and heating during cold weather are strongly recommended.

YIELD

Because all rehabilitation projects differ in nature and scope, product yields will vary with conditions.

MIXING

For best results, use a mechanical paddle type mixer. Pre-wet mixer and empty excess water. Add enough potable water to achieve desired consistency. It is a good idea to have a measurable container to allow the mixer operator to add the same amount of water to the mixer each time. Material should be mixed for a minimum of 5 minutes.

TOOLING

Mortar joints must be tooled before the material loses its plasticity. Tooling the joints not only provides an attractive finish, it increases the weather resistance of the material.

CLEANING

Use potable water to keep walls as clean as possible during construction. Cleaning agents may be used after wall has thoroughly cured. To ensure compatibility, test the cleaning agent on a sample area before the project begins. Follow all application information as described by the manufacturer.

CURING

Proper curing of mortar is essential for maximum strength to be achieved. For best results, a 72 hour damp cure is recommended.

STORAGE/SHELF LIFE

Normal cement storage and cement handling practices should be observed. It is imperative that product stored on the job-site is adequately protected from the weather and moisture intrusion. When stored properly Masons Mix Type O will stay in a usable state for approximately one year.

04200

MORTAR FOR MASONRY UNITS

Packaging: 80 lb. bag, 42 bags per pallet or 3000 lb. Colored mortar also available.

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PHYSICAL PROPERTIES

Compressive Strength (ASTM C-109)

	7 DAYS	14 DAYS	28 DAYS
ASTM C-270 Type O			350 psi 2.41 MPa
Masons Mix Type O	250 psi 1.72 MPa	400 psi 2.76 MPa	500 psi 3.45 MPa

Water Retention (ASTM C-91)

	28 DAYS
ASTM C-270 Type O	75% Minimum
Masons Mix Type O	92%

Air Content (ASTM C-91)

	28 DAYS
ASTM C-270 Type O	12% Maximum
Masons Mix Type O	3.7%

REGULATORY

Read and follow application information, precautions and Material Safety Data information.

Right to know

This product contains Portland Cement (CAS #65997-15-1) and Crystalline Silica (CAS #14808-60-7).

HMIS

Health 1, Fire 0, Reactivity 0

Prop 65

Warning! This product contains Crystalline Silica, a chemical known by the State of California to cause cancer or reproductive toxicity.

VOC Content

0 g/L

CAUTION

EYE AND SKIN IRRITANT

Contains Portland Cement (CAS #65997-15-1) and Crystalline Silica (CAS #14808-60-7). Do not allow contact with eyes or skin. Avoid breathing dust - Silica may cause serious lung problems. There is limited evidence silica is a carcinogen. The use of gloves, goggles, dust masks and other protective clothing is recommended. If cement or sand particles get into eyes, rinse immediately with clean water and seek prompt medical attention

TECHNICAL SERVICE

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NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price.

LIMITATION OF WARRANTIES AND LIABILITY Buyer assumes all risks associated with the use of this product. Manufacturer expressly disclaims all warranties expressed or implied including the warranties or merchantability and fitness for a particular purpose and all other warranties otherwise arising by operation of the law, course of dealing, custom, trade or otherwise. Buyer's exclusive remedy if this product is proven to be defective is limited to refund of purchase price by the manufacturer. Refund shall only be available if the buyer notifies manufacturer in writing within thirty days following discovery of any defect. Written notice shall be forwarded to 112 S. Santa Fe Drive, Denver, CO 80223. No claim can be made twelve months after purchase of product. Twelve months after the purchase manufacturer's duties with the respect to the product and limited warranty shall be presumed to have been satisfied. Manufacturer in no event is liable for consequential damages.