

# USM

Masonry Products

## Portland/Lime Type M

*Pre-Blended Portland Cement & Lime*

### DESCRIPTION

USM Portland/Lime Type M is a mixture of type S lime and portland cement blended to meet ASTM C-270 when mixed with masonry sand. Portland/Lime Type M displays excellent plasticity and bond properties which allows the joint to be tooled easily and efficiently. This ease of tooling also creates a denser mortar joint that is less susceptible to water intrusion and cracking.

### USES

Portland/Lime Type M is ideal for use on commercial building applications where brick, block or stone are used. Due to its enhanced workability, this product is especially geared toward the professional mason. Conveniently sized bags enable Portland/Lime Type M to be used in a quick, efficient and productive manner required in today's commercial building applications. Pre-blended mortar takes the guesswork out of proportioning, leaving the mason with a consistent, quality product with each mixer batch.

### BENEFITS

- Outstanding Workability: Smooth spreading ability lends itself to a quality finish
- Product can be colored during manufacturing for an architecturally pleasing appearance
- Mortar Board Life: Lime allows for an extended board life
- Consistency: Pre-blended concept eliminates job-site problems of inconsistent mortar batches

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

### YIELD

When mixed with masonry sand, one 70 lb. bag will lay approximately 50 (8x8x16) block or 125 brick with a 3/8" joint.

### MIXING

For best results, use a mechanical paddle type mixer. Pre-wet mixer and empty excess water prior to mixing. Place 3 cubic feet of ASTM C-144 masonry sand for each bag of Portland/Lime Type M in the mixer. Add enough potable water to produce desired consistency. Mortar should be mixed for a minimum of 5 minutes after all materials are in the mixer.

### 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 Portland/Lime Type M will stay in a usable state for approximately one year.

04200

MORTAR FOR MASONRY UNITS

Packaging: 70 lb. bags, 40 bags per pallet. 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 S			2,500 psi 17.23 MPa
Portland/Lime Type M	1,950 psi 13.44 MPa	2,300 psi 15.85 MPa	2,650 psi 18.26 MPa

#### Water Retention (ASTM C-91)

	28 DAYS
ASTM C-270 Type S	75% Minimum
Portland/Lime Type M	88%

#### Air Content (ASTM C-91)

	28 DAYS
ASTM C-270 Type S	12% Maximum
Portland/Lime Type M	3.3%

### 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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Web Site: [www.usmix.com](http://www.usmix.com)

**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.

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