**Preblended Portland Cement Lime Mortar**

**Type N, S, M**

**Product Description**

**Basic Use**
CEMEX’s Preblended Portland Cement Lime Mortar, when properly proportioned with water, will produce mortar complying with ASTM C270, *Standard Specification for Mortar for Unit Masonry*. The mortar is specially formulated and manufactured to produce masonry mortar for use in brick, block and stone masonry construction.

**Composition and Materials**

**Types**
CEMEX’s Preblended Portland Cement Lime Mortars are produced in Type N, Type S and Type M strength levels for use in preparation of ASTM C270 Type N, S or M mortar, respectively. Table 1 is a general guide for selection of mortar type. Other factors, such as type and absorption of masonry unit, climate and exposure, applicable building codes, and engineering requirements should also be considered.

<table>
<thead>
<tr>
<th>Building Segment</th>
<th>Mortar Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior, above grade,</td>
<td>N or S or M</td>
</tr>
<tr>
<td>load-bearing</td>
<td>N</td>
</tr>
<tr>
<td>non load-bearing</td>
<td>N or S</td>
</tr>
<tr>
<td>parapet wall</td>
<td></td>
</tr>
<tr>
<td>Exterior, at or below grade</td>
<td>S or M</td>
</tr>
<tr>
<td>Interior,</td>
<td></td>
</tr>
<tr>
<td>load-bearing</td>
<td>N or S</td>
</tr>
<tr>
<td>non load-bearing</td>
<td>N</td>
</tr>
</tbody>
</table>

**Limitations**
CEMEX’s Preblended Portland Cement Lime Mortars are designed to be mixed with water only. The addition of any other materials to a mortar at the job site is not required or recommended.

**Installation**

**Mixing**
CEMEX’s Preblended Portland Cement Lime Mortar only requires the addition of water. Machine mixing should be used whenever possible. Add sufficient water to produce a workable mix. Mortar should be mixed for at least three to five minutes.

**Application**
Good workmanship principles are required for successful application, including proper filling of head and bed joints, careful placement of units, appropriate tooling of the joint, modification of construction procedures and/or schedules to adapt to extreme weather conditions, and proper cleaning procedures. Masonry joints should be tooled at the same degree of stiffness and moisture. If joints are tooled too early, excess water will be drawn to the surface, producing lighter joints. The joints will appear dark and discolored if tooling is done after stiffening has started.

**Hot Weather and Retempering**
Mortars exposed to hot winds and full sun will tend to lose workability due to the evaporation of water. Common sense precautions should be taken to protect the mortar such as shading the mixer, wetting mortar boards, covering wheelbarrows and tubs, and balancing mortar production to meet demand. If it is necessary to restore workability, mortar may be retempered by adding water and remixing. No mortar should be used or retempered beyond 2½ hours after the initial mixing.

**Cold Weather Precautions**
Mortar should be maintained at a minimum temperature of 40°F as prescribed by standard cold...
weather masonry specifications. Cold weather admixtures should be approved by the architect.

TECHNICAL DATA

Applicable Standards
The following standards apply to the use of CEMEX's Preblended Portland Cement Lime Mortar:
ASTM C150 Standard Specification for Portland Cement
ASTM C207 Standard Specification for Hydrated Lime for Masonry Purposes
ASTM C144 Standard Specification for Aggregates for Masonry Mortar
ASTM C270 Standard Specification for Mortar
ASTM C780 Standard Test Method for Pre-construction and Construction Evaluation of Mortar for Plain and Reinforced Unit Masonry

Water
All water should be clean and free from organic material and deleterious amounts of dissolved acids, alkalies and salts.

Property Specifications
CEMEX’s Preblended Portland Cement Lime Mortars conform to the Property Specifications of ASTM C270 (See Table 2).

<table>
<thead>
<tr>
<th>Mortar Type</th>
<th>Compressive Strength 2” Cubes at 28 days Min., psi (MPa)</th>
<th>Water Retention Minimum %</th>
<th>Maximum % Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>750 (5.2)</td>
<td>75</td>
<td>20</td>
</tr>
<tr>
<td>S</td>
<td>1800 (12.4)</td>
<td>75</td>
<td>18</td>
</tr>
<tr>
<td>M</td>
<td>2500 (17.2)</td>
<td>75</td>
<td>18</td>
</tr>
</tbody>
</table>

Proportion Specifications
CEMEX preblended portland cement lime mortars conform to the Proportion Specification of ASTM C270.

WARRANTY
CEMEX warrants that the products identified are in accordance with the appropriate current ASTM and Federal Specifications. No one is authorized to make any modifications or addition to this warranty. CEMEX makes no warranty or representation, either expressed or implied with respect to this product and disclaims any implied warranty of merchantability or fitness for a particular purpose.

As CEMEX has no control over other ingredients mixed with this product or the final application, CEMEX does not and cannot warrant the finished work.

In no event shall CEMEX be liable for direct, indirect, special, incidental or consequential damages arising out of the use of this product, even if advised of the possibility of such damages. In no case shall CEMEX's liability exceed the purchase price of this product.

TECHNICAL SERVICES
CEMEX personnel are available to provide technical assistance for any of your needs concerning Preblended Portland Cement Lime Mortar. Please contact us at 1-800-99-CEMEX (23639).

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