

DIVISION 12 - MISCELLANEOUS

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SECTION 12100 - CEMENT MORTAR

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SECTION 12100 - CEMENT MORTAR

1. DESCRIPTION

This Specification Section prescribes the preparation and supply of Cement Mortar for masonry and for any other incidental works.

2. MATERIAL REQUIREMENTS

2.1 Reference Standards

The following most recent edition of the following Standards shall be applied to the Works covered by this Specification Section.

Vietnamese Standards:

TCVN 3121: 2003	Cement Mortar – Specification Standard for Testing
TCVN 7570-2006	Aggregates for Concrete and Mortar - Specification
TCVN 2682-2009	Portland Cement - Specification
TCVN 6260-2009	Mixed Portland Cement – Specification

International Standards:

ASTM C207-06	Hydrated Lime for Masonry Purposes
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2.2 Mortar

The materials to be used for preparation of mortar shall fulfill the following requirements:

- a) Cement shall conform to the requirements of TCVN 6260-2009 and TCVN 2682-2009.
- b) Fine aggregate shall conform to the requirements of TCVN 7570-2006.
- c) Hydrated lime shall meet the requirements for residue, popping and pitting, and water retention specified for Type N lime in ASTM C207-06.
- d) Water shall conform to the requirements of Specification Section 07100 Concrete and Concrete Structures.
- e) Unless otherwise directed by the Engineer masonry mortar shall be composed of one part Portland cement and three parts fine aggregate by volume to which hydrated lime may be added in an amount equal to 10 percent of the cement by weight.

3. CONSTRUCTION REQUIREMENTS

- a) All the materials except water shall be mixed, either in a tight box or in an approved mortar mixer, until the mixture assumes a uniform color after which water shall be added and the mixing continued for a five to ten

minutes period. The quantity of water shall be such as to produce a mortar of the required consistency but shall be no more than 70 percent of the weight of the cement used.

- b) Mortar shall be mixed only in those quantities required for immediate use. If necessary mortar may be retempered with water within 30 minutes from the time of the initial mixing process. Retempering after this time will not be permitted.
- c) Mortar that is not used within 45 minutes after the water has been added shall be discarded.

4. MEASUREMENT AND PAYMENT

The preparation and supply of cement mortar in accordance with the provisions, material requirements and construction requirements of this Specification Section is defined as Indirectly Paid Work shall neither be measured nor paid separately, and shall be deemed included in the rates and prices for other main items or distributed among all the pay items listed in the Bill of Quantities. No separate payment will be made for these items.

Any Cement Mortar Works not specifically identified in this Specification Section but which are necessary for the performance of the Works shall be deemed to be Indirectly Paid Work, which shall neither be measured nor paid separately and shall be deemed included in the rates and prices for other main items or distributed among all the pay items listed in the Bill of Quantities.