

PART 1- GENERAL

1.1 REFERENCES

- .1 ASTM C 207-79(1988) Specification for Hydrated Lime for Masonry.
- .2 CSA A82.56-1950 (R1971) Aggregate for Masonry Mortar.
- .3 CSA A179-M1976 Mortar and Grout for Unit Masonry.

1.2 ALLOWABLE
TOLERANCES

- .1 Mortar compression strength:
 - .1 CSA A23.2.8A
 - .2 7 Day, 1.0 MPa (145 psi)
 - .3 28 Day, 2.2 MPa (320 psi)
 - .4 90 Day, 3.5 MPa (510 psi)
 - .5 365 Day, 4.5 MPa (650 psi)
- .2 Air content: ASTM C 231, 8-15%
- .3 Flow: ASTM C 1437, 100-115%
- .4 If the mortar fails to meet the 7day compressive strength requirements, but meets the 28day compressive strength requirement, it is to be accepted. If the mortar fails to meet the 7day compressive strength requirement, but its strength at 7days exceeds two thirds of the value required for the 7day strength, the contractor may elect to continue work at his own risk whilst awaiting the results of the 28day tests, or to take down the work affected.

1.3 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit samples in quantity and size in accordance with CSA A179M.

1.4 TEST REPORTS

- .1 Submit 3 sets of test results to show that properties are appropriate to particular mortar mix.

1.5 EXISTING
CONDITIONS

- .1 Investigate possible structural problems and report before beginning masonry work.

- .2 Study pointing styles and methods of reproducing them, and submit sample for approval before starting work.
- .3 Examine horizontal and vertical joints to determine which were struck first and whether they are same style, as well as other aspects of workmanship which establish authenticity of original work.

1.6 ENVIRONMENTAL REQUIREMENTS

- .1 Execute work when ambient temperature is above 0°C. When ambient temperature is below 0°C care and heat work as directed by Engineer.
- .2 The substrate and mortar temperature should be 5°C and 38°C (40°F and 100°F) and maintained in this range for 72 hours after mortar application.

1.7 SCHEDULING OF WORK

- .1 Submit work schedule indicating anticipated progress stages within time of final completion shown in bid document.
- .2 Take measures necessary to complete work within approved schedule time. Schedule may not be changed without approval.

1.8 ALTERNATIVES

- .1 Obtain Departmental Representative's approval before changing manufacturer's brands or sources of supply of mortar materials during entire contract or other methods of mixing mortar specified elsewhere in this specification.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Pre-blended, pre-packaged mortar specifically designed for use with stone masonry.
- .2 Mortar is a blend of natural hydraulic lime, hydrated type S lime and masonry sand.
- .3 Colour: to match existing mortar.

2.2 MORTAR

- .1 Mortar contains natural hydraulic lime and hydrated lime.

- .2 Repointing: new mortar to be used in repointing is to match the existing mortar as specified .
- .3 Allow lime mortar to set for 72 hours before subjecting to load.
- .4 Colouring: Colouring agents as required to match existing.

PART 3 - EXECUTION

3.1 MIXING

- .1 Prepare pre-blended mortar using manufacturer's instructions.

3.2 FIELD QUALITY CONTROL

- .1 Follow proper batching procedure.
- .2 Use batching box.
- .3 Monitor mixing time.

3.3 CLEANING

- .1 Remove droppings and splashings using clean sponge and water.
- .2 Clean masonry with low pressure clean water and soft natural bristle brush.

3.4 PROTECTION OF COMPLETED WORK

- .1 Cover completed and partially completed work not enclosed or sheltered with waterproof covering at end of each work day. Anchor securely in position.
- .2 Provide if necessary temporary bracing as specified in Section 01 56 00 Temporary Barriers and Enclosures.

END OF SECTION