Part 1 General

1.1 SECTION INCLUDES

1. Mortar and grout for masonry, excluding rubblestone foundation grouting and repairs

1.2 RELATED REQUIREMENTS

1. Section 04 05 19 - Masonry Anchorage and Reinforcing.
2. Section 04 26 16 - Reinforced Unit Masonry.

1.3 REFERENCE STANDARDS

1. CAN/CSA A179-14 Mortar and grout for unit masonry
2. CAN/CSA A371-14 Masonry construction for buildings

1.4 INFORMATIONAL SUBMITTALS

1. Section 01 33 00: Submission procedures.
2. Reports:
    1. Submit reports on mortar indicating conformance of mortar to property requirements of CAN/CSA-A179.
    2. Submit reports on grout indicating conformance of component grout materials to requirements of CAN/CSA-A179.

1.5 CLOSEOUT SUBMITTALS

1. Section 01 77 00: Submission procedures.

1.6 DELIVERY, STORAGE, AND HANDLING

1. Maintain packaged materials clean, dry, and protected against dampness, freezing, and foreign matter.

Part 2 Products

2.1 MATERIALS

1. Cementitious Material:
    1. Portland Cement: CSA-A3000, Type GU, colour grey.
    2. Masonry Cement: CSA-A3000, Type S, colour grey.
    3. Mortar Cement: CSA-A3000.
    4. Blended Hydraulic Cement: CSA-A3000.
2. Mortar Aggregate: CAN/CSA-A179, fine aggregate.
3. Grout Aggregate: CAN/CSA-A179, fine aggregate.
4. Water: Clean and potable.
5. Premix Mortar: CAN/CSA-A179, Type S, using grey colour cement.

2.2 MORTAR MIXES

1. Mortar for Exterior Above Grade:
    1. Loadbearing Walls: CAN/CSA-A179, Type S using the Property specification.
    2. Non-Loadbearing Walls: CAN/CSA-A179, Type N using the Property specification.
2. Mortar for Exterior Below Grade:
    1. Foundation Walls: CAN/CSA-A179, Type S using the Property specification.
3. Mortar for Interior Above Grade:
    1. Loadbearing walls: CAN/CSA-A179, Type S using the Property specification.
    2. Non-Loadbearing Partitions: CAN/CSA-A179, Type N using the Property specification.

2.3 MORTAR MIXING

1. Mix mortar ingredients to CAN/CSA-A179 in quantities needed for immediate use.
2. Do not use antifreeze liquids, calcium chloride, frost inhibitors based on calcium chloride, salts or other substances used for lowering the freezing point or accelerating setting time.
3. If moisture is lost by evaporation, retemper as directed by the manufacturer.
4. Use mortar within period and temperatures as specified in CAN/CSA-A179.

2.4 GROUT MIXES

1. Engineered Masonry: 21 MPa strength at 28 days; 200-250 mm slump; mixed to CAN/CSA-A179, fine grout.

2.5 GROUT MIXING

1. Mix grout to CAN/CSA-A179.
2. Thoroughly mix grout ingredients in quantities needed for immediate use to CAN/CSA-A179, fine grout.
3. Add admixtures into manufacturer's written instructions; mix uniformly.
4. Do not use antifreeze liquids, calcium chloride, frost inhibitors based on calcium chloride, salts or other substances used for lowering the freezing point or accelerating setting time.

Part 3 Execution

3.1 EXAMINATION

1. Request inspection of spaces to be grouted.

3.2 PREPARATION

1. Plug clean-out holes with block masonry units. Brace masonry for wet grout pressure.

3.3 INSTALLATION

1. Install mortar and grout to CAN/CSA-A179.

3.4 FIELD QUALITY CONTROL

1. Inspection and Testing:
    1. Section 01 45 00: Quality Control.
    2. Test mortar mix to CAN/CSA-A179 for compressive strength.
    3. Test grout mix to CAN/CSA-A179 for compressive strength.

End of Section