SECTION 04100 - MORTAR

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK
A. Provide mortar for repointing unit masonry.

1.2 RELATED WORK SPECIFIED IN OTHER SECTIONS
A. Refer to Section 04200 for unit masonry and reinforcement.

1.3 DELIVERY AND STORAGE OF MATERIALS
A. Delivery materials in their original unopened packages, containers or bundles, and store in a place providing protection from damage, freezing and contamination.
B. Remove damaged, deteriorated or contaminated materials from the premises.

1.4 SUBMITTALS
A. Submit material certificates signed by manufacturer certifying that each product required for mortar complies with requirements. Include name of manufacturer, brand and type.

1.5 ENVIRONMENTAL CONDITIONS
A. Temperature of masonry materials shall be above freezing when placed.
B. Protect masonry from freezing for 48 hours after placing.
C. Unless precautions are taken against freezing, do not erect masonry when temperature is below 32°F (0°C) on a rising temperature, or below 40°F (4°C) on a falling temperature.
D. Do not lay masonry on walls or footings that are frozen or contain frost.

PART 2 - PRODUCT

2.1 MORTAR
A. Mature Lime Putty: NIAGARA® Mature Lime Putty slaked, aged and screened at factory by GRAYMONT DOLIME (OH) INC. consisting of water and dolomitic slaked lime conforming to ASTM C207 and Canadian CSA A179.
TYPE O: Referred to as 1-2-9, Type O mortar is normally specified for moderately exposed masonry, and sheltered walls above grade.

TYPE K: Often referred to as 1-3-12, Type K is the mortar type used for repointing purposes where low compressive strengths are required.

EDIT/SELECT TYPE APPROPRIATE FOR PROJECT.

1. Type O
2. Type K

B. White Portland Cement conforming to ASTM C150
C. Aggregate: Sand conforming to ASTM C144.

D. Colored Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes.
E. Water: Potable and clean.

2.2 MIXES

Note: GRAYMONT DOLIME (OH) INC. provides detailed instruction for contractors. Reference to manufacturers instructions and recommendations is sufficient. EDIT/SELECT TYPE APPROPRIATE FOR PROJECT.

A. Type O: Mix NIAGARA® Mature Lime Putty with sand, white Portland Cement and water in specified proportions.
B. Type K: Mix NIAGARA® Mature Lime Putty with sand, white Portland Cement and water in specified proportions.

PART 3 - EXECUTION

3.1 MIXING

A. Mix mortar in strict accordance with manufacturer's instructions and recommendations to achieve workability and meet performance requirements for mortar type specified.

END OF SECTION