PART 1 – GENERAL

1.1 Summary

A. This Section includes mortar (and grout) for masonry.

B. Related Sections

1. Section 01400 – Quality Control.
2. [Section 04235 – Preassembled Masonry Panels.]
3. [Section 04270 – Glass Unit Masonry.]
4. [Section 04300 – Unit Masonry System: Installation of Mortar [.] [and Grout.]]
5. [Section 04310 – Single Wythe Masonry System: Installation of Mortar [.] [and Grout.]]
6. [Section 04320 – Veneer Masonry System: Installation of Mortar [.] [and Grout.]]
7. [Section 04330 – Cavity Wall Masonry System: Installation of Mortar [.] [and Grout]]
8. [Section 04340 – Reinforced Unit Masonry System: Installation of Mortar [.] [and Grout]]
9. [Section 04410 – Rough Stone: Installation of mortar for rough stone.]
10. [Section 04450 – Cut Stone Veneer: Installation of for [marble.] [granite.] [slate.] [limestone.]
11. Section 04500 – Masonry Restoration and Cleaning: Bedding and pointing mortar for masonry restoration work.

1.2 References

A. American Society for Testing and Materials

B. European Standard

1. EN 459-1 Building Lime – Part 1: Definitions, Specifications and Conformity Criteria
2. EN 459-2 Building Lime – Part 2: Test Methods
3. EN 459-3 Building Lime – Part 3: Conformity Evaluation

1.3 Submittals

A. Section 01330 – Submittal Procedures: Submittal Procedures.

B. Product Data: Submit data on design mix, indicate Proportion or Property method used, and required environmental conditions.

C. Samples: Submit [two] [_______] ribbons of mortar color, illustrating color and color range.

D. Submit [premix mortar] [_______] manufacturer's installation instructions.

1.4 Quality Assurance

A. Perform Work in accordance with Manufacturer's Instructions

1.5 Qualifications

A. Manufacturer: All St. Astier NHL shall be obtained from:

LimeWorks.us
3145 State Road
Telford, PA 18969
215-536-6706
215-453-1310 Fax
info@limeworks.us
www.LimeWorks.us

Or its authorized distributors.

B. Installer: Company specializing in performing plaster/stucco work with a minimum of three (3) years experience.

1.6 Storage and Handling

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

1.7 Pre-Installation Meetings

A. Section 1300 – Administrative Requirements: Pre-Installation Meeting.
1.8 Environmental Requirements

A. Provide environmental conditions at areas where Work of this SECTION is being performed to allow lime mortar to properly cure.

B. Take precautionary measures necessary to assure that excessive temperature changes do not occur.

C. Do not apply lime mortar unless minimum ambient temperature of 45 degrees F and a maximum of 85 degrees F has been and continues to be maintained for a minimum of 48 hours prior to application and until mortar is cured.

D. Hot Weather Requirements: Protect lime mortar for uneven and excessive evaporation during dry, hot weather. Provide tarping over the outside of all scaffolding.


PART 2 – PRODUCTS

2.1 Lime Mortar (NHL)

A. Manufacturer

1. CESA – Imported and distributed by LimeWorks.us

2. Substitutions not permitted.

2.2 Components

A. Mortar Base Materials

1. Binder:

   a. St. Astier Natural Hydraulic Lime NHL 2

   b. St. Astier Natural Hydraulic Lime NHL 3.5

   c. St. Astier Natural Hydraulic Lime NHL 5

   d. Premix Mortar:

      I. Ecologic G, Ecomortar G
II. Ecologic F, Ecomortar F

2. Aggregate: Natural or Manufactured Sharp Sand with at least 4 grades forming a substantial part of the sand and no more than 3% of particles smaller than grade #200 (0.075 mm).

3. Water: Clean and potable.

B. [Mortar Color]

1. Mortar Color: [Mineral oxide pigment;] [_____] [_____] color; [_______] manufactured by [______].

2.3 Mortar / Grout Mixes

A. 1 part NHL 2 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.

B. 1 part NHL 3.5 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.

C. 1 part NHL 5 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.

D. Premix Mortar: Ecologic G, Ecomortar G

E. Premix Mortar: Ecologic F, Ecomortar F

F. Protect mixtures from freezing, frost, contamination, and excessive evaporation.

2.4 Mortar / Grout Mixing

A. Thoroughly mix mortar ingredients in accordance with manufacturer's instructions.

B. [Add mortar color in accordance with manufacturer's instructions. Provide uniformity of mix and coloration.]

C. Do not use anti-freeze compounds to lower the freezing point of the mortar.

PART 3 – EXECUTION

3.1 Examination

A. Section 01300 – Administrative Requirements: Coordination and project conditions.

B. Request inspection of spaces to be grouted.

3.2 Preparation

A. Dampen surfaces to reduce excessive suction.
B. [Plug cleanout holes with [brick] [block] masonry units] [_______] to prevent leakage of grout materials. Brace masonry for wet grout pressure.]

3.3 Installation

A. Install mortar [and grout] in accordance with [premix mortar] [_____] manufacturer's instructions.

B. Work grout into masonry cores and cavities to eliminate voids.

C. Do not displace reinforcement while placing grout.

D. Remove grout spaces of excess mortar.

3.4 Schedule

END OF SECTION