

MANUFACTURER'S SPECIFICATIONS
Section 09225 – ST. ASTIER LIME PLASTER (NHL)
PLASTER ON ADOBE/COB

ST. ASTIER NATURAL HYDRAULIC LIME PLASTER

PART 1 – GENERAL

1.1 Summary

- A. This Section includes St. Astier Natural Hydraulic Lime plaster system.
- B. Related Sections
 - 1. Section [_____ – _____]: Wall substrate surface.

1.2 References

- A. American Society for Testing and Materials
 - 1. ASTM C25 – Test Methods for Chemical Analysis of Limestone, Quicklime and Hydrated Lime.
 - 2. ASTM C91 – Standard Specification for Masonry Cement.
 - 3. ASTM C109 – Test Method for Compressive Strength of Hydraulic Cement Mortars.
 - 4. ASTM C141 – Standard Specification for Hydraulic Lime for Structural Purposes.
 - 5. ASTM C144 – Standard Specification - Aggregate for Masonry Mortar.
 - 6. ASTM C150 – Standard Specification for Portland Cement.
 - 7. ASTM C206 – Standard Specification for Finishing Hydrated Lime.
 - 8. ASTM C207 – Standard Specification for Hydrated Lime for Masonry Purposes.
 - 9. ASTM C897 – Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters
 - 10. ASTM C926 – Standard Specification for Application of Portland Cement-Based Plaster.
 - 11. ASTM C979 – Standard Specification for Pigments for Integrally Colored Concrete.
- B. Portland Cement Association

1. PCA – Portland Cement Plaster (Stucco) Manual.
- C. 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 Performance Requirements
- A. Structure to be designed in such a way as to minimize the transfer of stress from building to plaster skin.
- 1.4 Submittals
- A. Section 01330 – Submittal Procedures: Submittal Procedures.
- B. Product Data: Submit data on plaster materials, characteristics and limitations of products specified.
- C. Samples: Submit two samples, 12 inch by 12 inch in size, illustrating finish color and texture.
- 1.5 Quality Assurance
- A. Perform Work in accordance with Manufacturer’s Instructions.
- 1.6 Qualifications
- A. Manufacturer: All St. Astier NHL shall be obtained from:
TransMineral USA, Inc.
201 Purrington Road
Petaluma, CA 94952
707-769-0661
707-769-0352 Fax
transmin@sonic.net
www.limes.us
www.transmineralusa.com
- or its authorized distributors.

- B. Installer: Company specializing in performing plaster/stucco work of this section with a minimum of three (3) years experience.
- 1.7 Mock-up
- A. Section 01400 – Quality Requirements: Requirements for mock-up.
 - B. Construct mock-up, ___ feet long by ___ inch wide, including exterior and interior wall illustrating surface finish and color.
 - C. Locate where directed by Architect.
 - D. [Incorporate accepted mock-up as part of Work.]
- 1.8 Pre-Installation Meetings
- A. Section 1300 – Administrative Requirements: Pre-Installation Meeting.
 - B. Convene minimum one week prior to commencing work of this SECTION.
- 1.9 Environmental Requirements
- A. Provide environmental conditions at areas where Work of this SECTION is being performed to allow limeplaster to properly cure.
 - B. Take precautionary measures necessary to assure that excessive temperature changes do not occur.
 - C. Do not apply limeplaster 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 plaster is cured.
 - D. Hot Weather Requirements: Protect limeplaster from uneven and excessive evaporation during dry, hot weather. Provide tarping over the outside of all scaffolding.

PART 2 – PRODUCTS

2.1 Lime Plaster (NHL)

09225-3

St. Astier Natural
Hydraulic Lime Plaster (NHL)
Adobe/Cob 05/27/03

- A. Manufacturer
 - 1. CESA – Imported and distributed by TransMineral USA, Inc.
 - 2. Substitutions not permitted.
- 2.2 Components
- A. Plaster Base Materials
 - 1. Binder: St. Astier Natural Hydraulic Lime [NHL 3.5] [NHL 2].
 - 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 (0.075mm).
 - 3. [Pre-Mix: Ecomortar G.]
 - 4. [Fibers: inch nominal length glass fibers meeting requirements of ASTM C1116.] [Fibers: animal hair]
 - B. Plaster Finish Materials
 - 1. Binder: St. Astier Natural Hydraulic Lime NHL 2.
 - 2. [Pre-Mix: Ecomortar F.]
 - 3. Color Pigment: ASTM C979 mineral oxide type, [_____]color.
 - 4. Water: Clean, fresh, potable and free of mineral or organic matter capable of affecting plaster.
 - C. Finish Aggregate.
 - 1. 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 (0.075mm).
- 2.3 Mixes
- A. Limewater: 1 part NHL 2 and 20 parts water.

- B. Scratch Coat: 1 part NHL 3.5 and [1.5] [2] parts of sand, proportioned by volume.
 - [1. Fiber Reinforcement: add [fiber] [hair] to scratch coat]
- C. Brown Coats: [1 part NHL 3.5 and [2] [2.5] parts of sand, proportioned by volume.] [Ready-Mix: Ecomortar G]
- D. Finish Coat: [1 part NHL 2 and [2.5] [3] parts of sand, proportioned by volume.] [Ready-Mix: Ecomortar F]
- E. Mix only as much plaster as can be used prior to initial set.
- F. [Add color pigments to finish coat.]
- G. Mix materials dry, to uniform color and consistency, before adding water.
- H. Protect mixtures from freezing, frost, contamination, and excessive evaporation.

PART 3 – EXECUTION

3.1 Examination

- A. Section 01300 – Administrative Requirements: Coordination and project conditions.
- B. Verify that the surface is sound enough to receive the plaster coat. [Remove all loose material].

3.2 Preparation

- A. [Remove all friable materials and after cleaning, dampen with a 1:20 solution of NHL 2 applied in two coats.]
- B. Mist surfaces to reduce excessive suction.

3.3 Installation

- A. [Installation of Accessories:]
 - 1. [Install accessories in accordance with ASTM C1063.]
 - 2. [Place corner bead at external wall corners.]

3. [Place casing beads at terminations of plaster finish. Butt and align ends. Secure rigidly in place.]
4. [Install door and glazed frames plumb and level in opening. Secure rigidly in place.]

B. [Control and Expansion Joints:]

1. [Install interior control and expansion joints.]
2. [Install exterior contraction joints after initial set, scribed as indicated on Drawings by cutting through 2/3 of lime plaster depth, neatly, in straight lines.]
3. [For horizontal exterior surfaces, install control and expansion joints as indicated on Drawings.]
4. [For vertical exterior surfaces, install control and expansion joints as indicated on Drawings.]

C. Plastering

1. Apply plaster in accordance with manufacturer's instructions.
2. Apply scratch coat to a nominal thickness of 3/8 inch, and brown coat to nominal thickness of [3/8] inch over cob/adobe surfaces.
3. Apply finish coat to a nominal thickness of [1/8] [3/16] [1/4] inch.
4. After curing, dampen previous coat prior to applying finish coat. ALLOW 7 to 10 DAYS BETWEEN COATS.
5. [Apply finish coat [to indicated color and texture.] [to [light dash] [medium dash] [heavy dash] [fine sand float] [medium sand float] [heavy sand float] [combed] [glacier] [aggregate surfaced] [_____] texture with selected color.]
6. [Avoid excessive working of the surface. Delay troweling as long as possible to avoid drawing excess fines to surface.]

3.4 Erection Tolerances

- A. Section 01400 – Quality Requirements: Tolerances.

3.5 Adjusting

- A. Section 01700 – Execution Requirements: Testing, adjusting, and balancing.

- B. Remove damaged or defective plaster by cutting and replace with specified materials to match adjacent plaster.

3.6 Schedules

END OF SECTION