MANUFACTURER'S SPECIFICATIONS
Section 09220 LIMESTONE PLASTER

LE DÉCOR LIMESTONE

PART 1 – GENERAL

1.1 General

A. This section describes the requirements for furnishing and installing Limestone Plaster.

1.2 System Description

A. Le Décor LimeStone is a limestone mortar based on natural hydraulic lime as binding material and mineral charge (limestone sand) as aggregate that can be used each time a limestone finish is desired.

B. Design Requirements:

1. Structure to be designed in such a way as to minimize the transfer of stress from building movements to plaster skin.
2. Unless otherwise indicated or specified, comply with applicable requirements of UBC Chapter 25, and the WLBDIA Manual.
3. Acceptable substrates include: Brick, masonry, concrete, cement plaster and exterior cement.
4. Acceptable substrates for use with wire mesh reinforcement or metal lath include: drywall, plywood, or wood/steel structure.

C. Allowable Tolerances

1. "Honed" Finish: Maximum deviation from true plane of 1/8" as measured from the line of a 10' straightedge placed on any location of the surface.
2. "Medium Texture" Finish: Maximum deviation from true plane of 1/4" as measured from the line of a 10' straightedge placed on any location of the surface.
3. "Carved" Finish: Per architect approved sample. All deviations on the sample shall be determined prior to application on the actual project by way of mock-up.

1.3 Quality Insurance

A. All Le Décor LimeStone plaster and LimePlaster products shall be obtained from TransMineral USA, Inc., or its authorized distributors.

TransMineral USA, Inc.
201 Purrington Road
Petaluma, CA 94952
707-769-0661
Contact: Michel Couvreux
Email: transmin@sonic.net
Website: www.transmineralusa.com

B. All Le Décor products must be installed by an approved/certified applicator. The applicator for this project must have a minimum of four (4) years of experience in installing Le Décor products.

1.4 Submittals

A. Samples: 12 inch x 12 inch of finish coat for preliminary approval of texture and color. Assume minimum of 6 – 12" x 12" samples to arrive at preliminary approval of finish texture and color. Final approval will be of mock-up.

B. Product Data: Manufacturer's written recommendations, proportion mixes, and installation instructions for factory-prepared materials.

C. Certification: Manufacturer's certification that materials comply with specified requirements.

1.5 Related Sections:

A. Section 05400 – Cold Formed Metal Framing
B. Section 07920 – Exterior Caulking and Joint Sealant
C. Section 09200 – Metal Lath and Trims
D. Section 09220 – Portland Cement Plaster
E. Section 09250 – Gypsum Board

1.6 Mock-up

A. See Specification Section 01430: MOCK-UPS, for additional information.

B. General: After approval of sample panels for color and finish texture, prepare a mock-up approximately 8 feet by 8 feet, on site, as directed, complete with reveals, and all accessories.

C. After approval of mock-up, it will be as a standard for the Work, and may be incorporated into the Work, if practicable.

1.7 Product Delivery, Storage, and Handling

A. Deliver manufactured materials in original unopened packages or containers with Manufacturer's label intact and legible.

B. Keep cement and limestone materials dry, stored off ground, under cover, and away from damp surfaces.

C. Remove wet and deteriorated materials from Project site.

D. Protect metallic materials and accessories from moisture and other sources of damage.

1.8 Job Conditions

A. Environmental Requirements

1. Provide environmental conditions at areas where Work of this SECTION is being performed to allow limestone plaster to properly cure.
2. Take precautionary measures necessary to assure that excessive temperature changes do not occur.
3. Do not apply limestone plaster unless minimum ambient temperature of 45 degrees F and a maximum of 80 degrees F has been and continues to be maintained for a minimum of 48 hours prior to application and until plaster is cured.
4. Hot Weather Requirements: Protect limestone plaster from uneven and excessive evaporation during dry, hot weather.

B. Protection:

1. Cover building openings in areas adjacent to plastering work with plastic film.
2. Protect finished surfaces installed prior to plastering by covering with a suitable non-staining material. Cover windows, louvers, vents, and curtain-wall frames with plastic film.

PART 2 – PRODUCTS

2.1 Base-Coat Materials

A. Portland Cement: ASTM C 150, Type I or Type II.

B. Plastic Cement: ASTM C 150, Type I or Type II, with added plasticizers not exceeding 12 percent of total volume of cement.

C. Aggregates: ASTM C 897, gradation as recommended by limestone plaster manufacturer.

D. Admixture: As recommended by limestone plaster manufacturer.

E. Water: Clean, potable, and free from substance harmful to plaster.

2.2 Brown/Finish Coat Materials

A. General: Le Décor LimePlaster with mineral pigments added to natural lime as required to achieve selected color; match accepted mock-up.

2.3 Limestone Plaster

A. Mixing:

1. General: Mix in accordance with manufacturer's recommendations. Accurately proportion materials for each plaster batch with measuring devices of known value. Size batches for complete use within maximum of one hour after mixing.
2. Mechanical Mixing:
   a. Clean mixer of set or hardened materials before loading for new batch.
   b. Maintain mixer in continuous operation while adding materials, conform to mixing sequence, cycle of operations, and time recommended by manufacturer of plaster materials. Do not hand-mix, unless authorized by limestone plaster manufacturer.

B. Mix Proportions

1. Base Coat: Four (4) parts aggregate to one (1) part cement, by volume, unless otherwise recommended by limestone plaster manufacturer.
2. Brown Coat/Finish Coat: One (1) 46 lb. (21 kg) bag of hydraulic binder and two (2) 55 lb. (25 kg) bags of aggregate (mineral charge).

PART 3 – EXECUTION

3.1 Inspection

A. Verify that surfaces to be plastered are free of dust, loose particles, oil and other foreign matter which would affect bond of plaster coats.

B. Examine construction, grounds, and accessories to ensure that finished plaster surfaces will be true to line, level, and plumb, without requiring additional thickness of plaster.

C. If unsatisfactory conditions exist, do not commence the installation until such conditions have been corrected.

3.2 Preparation

A. Protect surfaces near the work of this Section from damage or disfiguration.

B. Saturate substrate to a maximum, one day before applying finish coat. Humidify substrate before final application.

C. Clean concrete surfaces of foreign matter. Clean surfaces using acid solutions, solvents, or detergents. Wash surfaces with clean water. These operations should be carried out with high-pressure warm water.

D. Roughen smooth surfaces.

3.3 Control and Expansion Joints

A. Locate interior control and expansion joints every 12 feet maximum.

B. After initial set, scribe contraction joints in exterior work every 12 feet in each direction by cutting through 2/3 of the plaster maximum depth, neatly, in straight lines.

C. Locate exterior control and expansion joints every 12 feet maximum in each direction.

D. Establish control and expansion joints with specified joint device.

E. Coordinate joint placement with other related work.

3.4 Application

A. Installation of Accessories: Specified in SECTION 09200 “Metal Lath & Trims”.

B. Number of Coats: Provide minimum of two-coats: cement plaster scratch coat (3/8”); limestone plaster brown/finish coat (1/2” min.) application over metal lath.

C. Two-Coat Application of Limestone Plaster:

1. Apply plaster by hand or machine spray.
2. Interrupt any plaster coat only at junctions of plaster planes, at openings, or at expansion joints.
3. Apply scratch coat with sufficient material and pressure to form full keys through and to embed metal base. When firm, score in a horizontal direction.
4. Apply brown/finish coat to scratch coat, flat to true surface, and free of imperfections which would reflect in finish coat.
5. Compression trowel brown/finish coat at initial set, to assure proper adhesion to the scratch coat.
6. Apply in accordance with manufacturer’s instructions.
7. Tool reveals in patterns indicated as detailed, match accepted mock-up.
8. Nominal Plaster Thickness Measured from Face of Lath: 7/8 inch total.

D. Finish Texture and Color:

1. Finish Texture: Match architect approved mock-up and samples.
2. Finish Color: Integral color to match approved submitted sample. Lighter colors do not require an integral color. Faux staining/painting, if required, shall match the architect's approved sample and mock-up.

E. Curing

1. Maintain moist conditions by covering surface with visquine, time allowed is determined by the desired finish texture, but in all cases a minimum of one (1) day is required.
2. Cure scratch coat for a minimum of 48 hours, and maintain a minimum of seven (7) days between application of scratch coat and brown/finish coat.
3. Cure finish coat in accordance with the manufacturer's instructions.

3.5 Completion

A. Patching

1. Upon completion of application, point up plaster around trim and other locations where plaster meets dissimilar materials.
2. Cut out and patch defective or damaged plaster.
3. Match patching of defective or damaged plaster to existing Work in form, texture, and color.

B. Cleaning

1. Remove plaster and protective materials from expansion joints, perimeter beads, and adjacent surfaces.
2. Remove stains that would adversely affect subsequent finishes on plaster.

C. When complete, plaster surfaces shall match accepted mock-up, and shall be flat, true to plane; and free from scaffold and tool marks, stains, or other damage or defects and shall match approved samples and mock-ups in color and texture throughout the Work, and with accurate, even tooling patterns.

END OF SECTION