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Suggested Specifications

Division 9 – Finishes

Lath and Plaster ASTM C-926 Three-Coat Plaster

Section 001: Inspection

Plaster and general contractors shall inspect and certify that all of the following items have been completed and properly installed to receive lath and plaster.

Windows: Installation

Windows shall be of type and design to receive three-coat plaster.
Windows shall be properly flashed so as to avoid water penetration.

Shearwall: Installation

All shearwall shall be installed in accordance with the manufacturer's instructions whereby a 1/8" gap is between all intersecting abutted joints.
Shearwall shall be attached to studs in accordance with the manufacturer's recommendations. This includes types of nails, screws, spacing, etc.

Section 002: Plaster Equipment

Equipment shall be of make and manufactured design for plaster mixing for hand or pumping application.
Equipment shall not be modified from its manufactured design and intended use.

Section 003: Climatic Conditions

No plaster shall be applied whereby exposed temperatures are 32 degrees or below for an extended time of forty-eight hours.
Contractor shall be experienced with climatic conditions such as heat, cold and windy conditions at the time of application, and takes proper steps so as to avoid pre-mature hydration or freeze drying of plaster.

shall apply a hardening/curing agent to the plaster and let it set for twenty-four hours before an additional plaster applications takes place.

Section 004: Preparation

Contractor shall mask off and protect windows and all other areas that are not to receive plaster.

Masking materials shall be of a type that will not leave a glue residue on window frames, etc.

Section 005: Materials, Lath and Trims

Water resistant vapor-breathing paper.

Water resistant vapor-breathing lath.

Drip screeds, corner beads, plaster stops, expansion joints, etc. per manufacturer's and architect's instructions.

Section 006: Plaster Materials

Cement: Portland Type I-II C-150 low alkali cement.

Cement: Pre-blended factory manufactured C-150-94 Tuff Kote Flex 10,000 manufactured by Incide Technologies, Inc. (800-777-4569), or an approved equal.

Admixture: plasticizer, water reducer, air entraining and gelling agents.

Job-site use: Kel-Crete Premium Liquid Admixture by Kel-Crete Industries, Inc. (800-845-1833), or an approved equal.

Pre-blended cement: Kel-Crete Super Dry Admixture by Kel-Crete Industries, Inc. (800-845-1833), or an approved equal.

Sand/Aggregates: ASTM C-144. Clean, hard, durable washed uncoated particles that are free from salt, loam, clay and other deleterious materials. Should be graded in sizes from fine to coarse.

Water: Clean, fresh, potable and free from mineral or other organic matters that can effect the plaster.

Kel-Prime bonding, sealing, hardening, curing, vapor breathing agent as provided by Kel-Crete Industries, Inc. (800-845-1833), or an approved equal.

Note: Always mix Kel-Prime 50/50 with clean tap water.

Section 007: Mixing instructions for one 80-94 pound sack of Portland cement first (scratch coat).

Note: Sand to cement ratio shall be three parts sand to one part cement.

Water: Add 4 to 5 gallons of water to the mixer.

Note: Sand moisture content shall be considered for the measured amounts of

water used.

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Admixture: Add the admixture to the water.

Cement: Add the cement to the mixer.

Note: For plaster mixing time and gelled mix add 50% of the sand to the mixer before the cement.

Sand: Add the sand to the mixer (see Note Item C) to the mixer.

Mixing time: Mix the total mix for 5 minutes.

Note: Reduce the mixing time to 3 minutes if the sand is added in accordance with “Note Item C”.

Note: Do not mix longer than 10 minutes. To do so will heat the mortar, and add too much air.

Note: For a longer set time stop mixing for 3 minutes (breaking the set), and then mix again for 3 minutes.

Section 008: Mixing instructions for one 80 to 94 pound sack of Portland cement second coat (brown coat).

Sand to cement ratio shall be 3 ½ parts sand to one part cement.

For water, admixture, cement and sand follow “Section 006, Items A, B, C, D and E”.

Section 009: Application: First Coat “Scratch Coat”

Total thickness shall be 3/8”.

Moist cure for seven days before the next coat is applied.

Note: **The double-back method of plaster (Table 47F of the Uniform Building Code)** whereby the second coat (brown coat) may be applied as soon as the first coat (scratch coat) has received a hardness where the first coat is not damaged by pressure of the second coat application.

Second coat “brown coat” plaster:

Total thickness shall be 3/8” so that first and second coats total ¾” thickness.

Moist cure the second coat (brown coat) for seven days.

Note: **The contractor has the option of applying Kel-Prime instead of moist curing.** Kel-Prime should be mixed 50/50 with water and applied letting the plaster set for 48 hours before applying the finish coat application.

Finish Coat Options:

Skip trowel, knock down dash, or sand float finish use the second coat mix design.

For pre-blended color coat cements follow the manufacturer’s recommendations.

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3. Kel-Prime: Mix the Kel-Prime 50/50 with clean tap water and apply to all finish coat areas. Kel-Prime may be applied with brushes, rollers, spray equipment, etc. These items must be cleaned in good water immediately after and between uses.

Section 010: Clean up

Contractor shall remove all masking preparation materials from the job site upon completion of the plaster application in all areas in an orderly manner so as to allow contractors that are to follow to complete their contracts.

Contractors shall move and clean up any and all plaster materials and equipment from around the completed areas of the plaster application.

011: Summation Items

Plaster contractor shall certify in writing that his or her company has a lath and plaster license, and is totally experienced in the trade, or lath and plaster application.

Plaster contractor shall certify that he or she has read this complete suggested specification, and has a complete knowledge of its contents. The plaster contractor shall bring to the attention of the general contractor, etc. any items in this suggested specification that are in conflict with his or her experienced knowledge, or is in conflict with local uniform building codes.

Submittals: Should the plaster contractor wish to change or submit any approved equals to this suggested specification he or she must do so at the time of the bidding process.

The submittal must include support documents for such desired changes.

Note: The intent of this suggested specification is to address each phase of the plaster application for the long term (forty-five years or more without failure), **and for present and future environmental issues.** All Kel-Crete products suggested for use in the plaster application are **non-toxic and non-hazardous.**

Note: For additional pumping suggestions, history, one-coat plaster specifications, safety, technical data and support documents please visit [www: Kel-Crete.com](http://www.Kel-Crete.com). For any questions you may e-mail us at: [HYPERLINK "mailto:kelcrete@sbcglobal.net" kelcrete@sbcglobal.net](mailto:kelcrete@sbcglobal.net). Our fax number is 918-744-0885. Our office number is 800-845-1833.

End of Specification

