***National One Coat Stucco Association (NOCSA)***

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**SECTION 09 2526**

**ONE-COAT STUCCO  
GENERIC SPECIFICATION**

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word 2007: Click the Office button, select Word Options, select Display, then select or deselect the HIDDEN TEXT option.

Microsoft Word (earlier versions): From the pull-down menus select TOOLS, then OPTIONS. Under the tab labeled VIEW, select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

This master specification section has been prepared by the National One Coat Stucco Association for use in the preparation of a project specification section covering premixed, Portland cement based stucco base coat with either Portland cement, acrylic, or elastomeric finish coat, commonly referred to as “one coat” stucco. One coat stucco may be applied directly to concrete or masonry surfaces, or over sheathing and metal lath or wire mesh.

The following should be noted in using this specification:

Hypertext links to specific websites are included after names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

([www.nocsa.org](http://www.nocsa.org/))

Optional text requiring a selection by the user is enclosed within brackets, e.g.: "Section [09 0000.] [\_\_\_\_\_.]"

Items requiring user input are enclosed within brackets, e.g.: "Section [\_\_\_\_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement, e.g.:

\*\*\*\* OR \*\*\*\*

"Green" requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEEDS, visit the U.S. Green Building Council website at [www.usgbc.org](http://www.usgbc.org).

For assistance on the use of the products in this section, contact the National One Coat Stucco Association by calling 888-461-3352, by email at [nocsa@aol.com,](mailto:info@nocsa.org,) or visit their website at [www.nocsa.org](http://www.nocsa.org).

1. **- GENERAL**
   1. SUMMARY

Edit the following paragraphs to include only those items specified in this section.

* + 1. Section Includes:
       1. Premixed, Portland cement based stucco base coat and finish coat.
       2. Metal trim and accessories.
       3. Polystyrene foam [details.] [insulation.]

Coordinate the following paragraphs with other sections in the project manual.

* + 1. Related Sections:
       1. Division 01: Administrative, procedural, and temporary work requirements.
       2. Section [03 3000 - Cast-In-Place Concrete:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Concrete substrate to receive stucco system.
       3. Section [04 2000 - Unit Masonry:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Masonry substrate to receive stucco system.
       4. Section [06 1100 - Framing and Sheathing:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] [Plywood] [Oriented strand board sheathing] substrate to receive stucco system.
       5. Section [06 1643 - Gypsum Sheathing:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Gypsum sheathing to receive stucco system.
       6. Section [07 2800 - Moisture Barriers:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Weather-resistant wall barrier.
       7. Section [07 6200 - Sheet Metal Flashings and Trim:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Metal wall flashings.
       8. Section [07 6500 - Flexible Flashings:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Flexible wall flashings.
       9. Section [07 9200 - Joint Sealers:] [\_\_ \_\_\_\_ - \_\_\_\_\_\_\_:] Joint sealers used in conjunction with stucco system.
       10. Section [09 2236 - Lath:] [\_\_ \_\_\_\_ - \_\_\_\_\_:] [Metal lath.] [Wire mesh.]
  1. REFERENCES

In the following paragraphs, retain only those reference standards that are used elsewhere in this section.

* + 1. ASTM International (ASTM) ([www.astm.org](http://www.astm.org)):
       1. C144 - Standard Specification for Aggregate for Masonry Mortar.
       2. C897 - Standard Specification for Aggregates for Job-Mixed Portland Cement-Based Plasters.
       3. C932 - Standard Specification for Surface-Applied Bonding Compounds for Exterior Plastering.
       4. C1063 - Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster.
    2. National One Coat Stucco Association (NOCSA) ([www.nocsa.org](http://www.nocsa.org)).
  1. SUBMITTALS

Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects.

Include the following for submission of product data and samples for the Architect's review.

* + 1. Submittals for Review:
       1. Product Data: Manufacturer’s technical information and application instructions.
       2. Samples:
          1. [6 x 6] [\_\_ x \_\_] inch finish coat samples showing available colors.
          2. [After color selection, submit] [12 x 12] [\_\_ x \_\_] inch plaster samples showing finish coat in [specified] [selected] color and texture.
          3. [6] [\_\_] inch long trim samples.

Include the following for submission of sustainable design submittals.

* + 1. Sustainable Design Submittals:
       1. Recycled Content: Certify percentages of post-consumer and pre-consumer recycled content.
       2. Regional Materials: Certify distance between manufacturer and Project and between manufacturer and extraction or harvest point in miles.
    2. Quality Control Submittals:
       1. Building Code Acceptance: Copies of manufacturer’s evaluation reports issued by Code authorities showing acceptance of stucco system.
       2. Manufacturer Certifications:
          1. Certify that materials furnished for Project comply with requirements of Contract Documents.
          2. If all stucco materials are not furnished by same manufacturer, provide certification from manufacturers stating that materials are compatible.
       3. Copy of stucco manufacturer’s current NOCSA membership certificate.
  1. QUALITY ASSURANCE

The following paragraph specifies a minimum level of experience required of the parties performing the work of this section. Retain if required, and edit to suit project requirements.

* + 1. Installer Qualifications: Minimum [2] [\_\_] years [documented] experience in work of this Section.

Include the following for full size mockups for review of construction and coordination of work of several sections.

* + 1. Mockup:
       1. Size: Minimum [4 x 4] [\_\_ x \_\_] feet.
       2. Show: Plaster color and texture, trim, and overall workmanship.
       3. Locate [where directed.] [\_\_\_\_.]
       4. Approved mockup may [not] remain as part of the Work.
    2. Not Acceptable: Lines in stucco caused by variations in application or finishing techniques, cold joints, and other surface defects visible when viewed from a distance of 10 feet.
  1. DELIVERY, STORAGE AND HANDLING
     1. Deliver materials in manufacturer’s original, unopened contains bearing identifying labels.
     2. Store materials off ground or floor, properly covered.
     3. Protect water-based materials from freezing.
  2. PROJECT CONDITIONS
     1. Cold Weather Requirements: Do not apply stucco unless minimum ambient temperature is forecast to be above 40 degrees F during and for minimum 24 hours after application.
     2. Hot Weather Requirements: Protect applied stucco from uneven and rapid evaporation during hot, dry, or windy weather by one of following methods:
        1. Fog surface with clean water.
        2. Cover with minimum 6 mil polyethylene film weighted or taped in place.

1. **- PRODUCTS**
   1. MANUFACTURERS

The following list includes manufacturers that are known to produce one or more of the products specified in this section, and that have websites available to assist in product research. Careful consideration of product attributes in relationship to project requirements is required before including products in the paragraphs that follow. This list is not intended to include every available manufacturer.

* + 1. Acceptable Manufacturers:
       1. Somar Industries, Ltd. (Eagle Building Materials (www.eaglebuildingmaterials.com)
       2. Expo Stucco Products (www.expostucco.com)
       3. EZ Wall Concentrate (www.ezconcentrate.com)
       4. Formulated Solutions, LLC (www.formulatedsolutions.net)
       5. IMASCO Minerals, Inc. (www.imascominerals.com)
       6. Kwik Kote Corporation (www.kwikkote.com)
       7. Omega Products International, Inc. (www.omega-products.com)
       8. Prowall Building Products, Inc. (www.prowall.com)
       9. Quikrete (www.quikcrete.com)
       10. Spec Mix, Inc. (www.specmix.com)
       11. Sto Corp.EZ Wall (www.stocorp.com)

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

* + 1. Substitutions: [Under provisions of Division 01.] [Not permitted.]
  1. MATERIALS

Include the following for a pre-sanded base coat.

* + 1. Base Coat: Manufacturer’s standard premixed, concentrated, pre-sanded one coat stucco base coat consisting of Portland cement, graded aggregate, fibers, and proprietary ingredients.

\*\*\*\* OR \*\*\*\*

Include the following for non-sanded base coat requiring the addition of sand at the project site.

* + 1. Base Coat:
       1. Manufacturer’s standard premixed, concentrated one coat stucco base coat consisting of Portland cement, fibers, and proprietary ingredients.
       2. Sand: ASTM C144 or ASTM C897, natural or manufactured, uniformly graded.

Include the following for a Portland cement finish coat; edit to suit project requirements.

* + 1. Finish Coat:
       1. Type: Cement based colored stucco finish coat consisting of Portland cement, lime, graded aggregate, colorant, and proprietary ingredients.
       2. Color: [[Custom] [\_\_\_\_] color.] [Color to be selected from manufacturer’s full color range.]
       3. Color-stabilizing spray: Fog coat in color to match finish coat, consisting of Portland cement, lime, graded aggregate, colorant, and proprietary ingredients.

\*\*\*\* OR \*\*\*\*

Include the following for an acrylic finish coat with aggregate; edit to suit project requirements.

* + 1. Finish Coat:
       1. Primer: Acrylic based consisting of acrylic polymers and proprietary ingredients.
       2. Finish coat: Tinted acrylic finish with aggregate consisting of acrylic polymers, graded aggregate, colorant, and proprietary ingredients.
       3. Color: [[Custom] [\_\_\_\_] color.] [Color to be selected from manufacturer’s full color range.]

\*\*\*\* OR \*\*\*\*

Include the following for an elastomeric finish coat with aggregate; edit to suit project requirements.

* + 1. Finish Coat:
       1. Primer: Acrylic based consisting of acrylic polymers and proprietary ingredients.
       2. Finish coat: Tinted elastomeric acrylic finish with aggregate consisting of acrylic polymers, graded aggregate, colorant, and proprietary ingredients.
       3. Color: [[Custom] [\_\_\_\_] color.] [Color to be selected from manufacturer’s full color range.]

\*\*\*\* OR \*\*\*\*

Include the following for a non-sanded acrylic finish coat; edit to suit project requirements.

* + 1. Finish Coat:
       1. Primer: Acrylic based consisting of acrylic polymers and proprietary ingredients.
       2. Finish coat: Tinted acrylic finish consisting of 100 percent acrylic polymers and proprietary ingredients.
       3. Color: [[Custom] [\_\_\_\_] color.] [Color to be selected from manufacturer’s full color range.]

\*\*\*\* OR \*\*\*\*

Include the following for a non-sanded elastomeric finish coat; edit to suit project requirements.

* + 1. Finish Coat:
       1. Primer: Acrylic based consisting of acrylic polymers and proprietary ingredients.
       2. Finish coat: Tinted elastomeric acrylic finish consisting of 100 percent acrylic polymers and proprietary ingredients.
       3. Color: [[Custom] [\_\_\_\_] color.] [Color to be selected from manufacturer’s full color range.]
    2. Water: Potable.

Include the following for decorative details; indicate sizes and shapes on Drawings. Polystyrene foam may be applied over sheathing, concrete, or CMU substrates to form quoins, bands, etc., may be applied over larger areas to produce reveals and additional thickness, or may be used for additional insulation value. When used as sheathing, polystyrene must conform to Evaluation Report requirements for density, thickness, and edge details. Polystyrene used in noncombustible construction must conform to Evaluation Report requirements.

* + 1. Polystyrene Foam:
       1. Expanded or extruded polystyrene, minimum 0.9 PCF density, of sizes and shapes indicated on Drawings.
       2. Adhesive: Type recommended by insulation manufacturer; compatible with substrate materials.

Edit the following to include only those metal trim profiles required for project.

* + 1. Metal Trim and Accessories:
       1. Material: Hot-dip galvanized steel, thickness to suit stucco thickness.
       2. Corner bead: J-shaped metal, general purpose type, with expanded or perforated flanges.

Edit the following to include desired casing bead profile.

* + - 1. Casing bead: [Square] [Rounded] profile, expanded or flanged to suit project conditions.
      2. Control joint: Accordion profile with 1/4 inch slot.
      3. Expansion joint: Adjustable type, free-floating, with adjustment from 1/4 to 5/8 inch.
      4. Weep screed: Foundation sill screed, perforated for drainage.
  1. ACCESSORIES

Edit the following to suit project requirements.

* + 1. Fasteners:
       1. Type and size suited to application, hot-dip galvanized steel.
       2. [Concrete] [Masonry] backup: Minimum 1/2 inch penetration.
       3. Metal stud backup: Meet ASTM C1063.
    2. Tie Wire: 16 gage, galvanized steel, soft annealed.

Include the following for stucco applied directly to concrete or masonry substrate.

* + 1. Bonding Agent: ASTM C932; type recommended for bonding plaster directly to [concrete] [masonry] surfaces.
  1. MIXES
     1. Mix materials in accordance with manufacturer’s instructions.
     2. Use mechanical mixer; hand mixing not permitted unless authorized in advance by Architect.
     3. Mix each batch separately; double batching with single batch discharge not acceptable.
     4. Accurately proportion materials for initial mixture using measuring devices of known volume.
     5. Withhold 10 percent of water until mixing is nearly complete, then add remainder as required to achieve workable mix.
     6. Clean mixing equipment after each batch.
     7. Maintain mixer in continuous operation while adding materials.
     8. Mixtures may be retempered one time after initial mixing.
     9. Discard frozen, caked, and hardened mixes. Discard mixes not used within 60 minutes after initial mixing.

1. **- EXECUTION**
   1. PREPARATION

Include the following two paragraphs for stucco applied directly to concrete or masonry substrate.

* + 1. Clean substrate surfaces of oil, [release agents,] other deleterious materials, and loose and foreign matter.
    2. [Wet high suction bases with fine water spray to produce uniformly damp surface.] [Apply bonding agent in accordance with manufacturer's instructions.]

Include the following three paragraphs for stucco applied over metal lath or wire mesh. Edit to suit project requirements.

* + 1. Verify that [metal lath] [wire mesh] is tight, properly secured, and overlapped.

Include the following for polystyrene foam; edit to suit project requirements.

* 1. INSTALLATION OF POLYSTYRENE FOAM
     1. Install with long joints continuous and end joints staggered.
     2. Secure to substrate with continuous beads of adhesive.

Edit the following to include only those metal trim profiles required for project; edit to suit project requirements.

* 1. INSTALLATION OF METAL TRIM
     1. Install casing beads where stucco abuts dissimilar material or stops with edge exposed.
     2. Install corner beads at external corners.
     3. Install control joints
        1. Locate as follows unless otherwise indicated on Drawings:
           1. As required to limit each area of plaster to [144] [\_\_] square feet with no dimension exceeding [12] [\_\_] feet.
           2. Vertically above and below each side of openings.
           3. Horizontally at each floor line.
        2. Run vertical joints continuous; butt horizontal joints into vertical joints.
        3. Apply joint sealer to form waterstop behind joints at intersections.
     4. Install expansion joints at locations indicated on Drawings.
     5. Install weep screeds at bottom of wall, [at each floor line,] [and at heads of openings in walls.
     6. Set level and true to line. [Wire tie to [metal lath] [wire mesh] at maximum 12 inches on center.] [Screw to supports at maximum [12] [\_\_] inches on center.]

Edit the following to suit project requirements.

* 1. APPLICATION OF BASE COAT
     1. Apply base coat in accordance with manufacturer’s instructions.
     2. Apply to minimum 3/8 inch thickness from [face of lath.] [face of [concrete.] [masonry.]]
     3. [Form full keys on lath.] Provide proper consolidation of base coat.
     4. Rod surface to acceptable plane.
     5. Float or lightly broom surface to provide bond with finish coat.

\*\*\*\* OR \*\*\*\*

* + 1. Apply desired texture or pattern by doubling back and applying additional base coat material as soon as first coat is firm enough to prevent damage.
    2. Work from wet edges to apply unbroken area in one continuous operation to eliminate joints.
    3. Finish surfaces true to plane, plumb and with neat, sharp corners and intersections.
    4. Work in panels to nearest natural break formed by intersections, corners, trim, and accessories.
    5. Tool base coat to V-joint at trim, grounds and accessories.

Include the following for a Portland cement finish coat; edit to suit project requirements.

* 1. APPLICATION OF FINISH COAT
     1. Apply finish coat in accordance with manufacturer’s instructions.
     2. Apply to minimum thickness recommended by manufacturer; using sufficient trowel pressure or spray velocity to bond finish coat to base coat.
     3. Apply in number of coats required to produce consistent finish.
     4. Provide [fine spray] [medium spray] [heavy spray] [smooth trowel] [\_\_\_\_] texture to match approved mockup.
     5. Work from wet edges to apply unbroken area in one continuous operation to eliminate joints.
     6. Finish surfaces true to plane, plumb and with neat, sharp corners and intersections.
     7. Work in panels to nearest natural break formed by intersections, corners, trim, and accessories.
     8. Apply fog coat by brush, roller, or spray in number of coats required to produce consistent finish matching approved mockup.
     9. Allow fog coat to dry, then mist with water twice daily for 2 days.

Include the following for an acrylic or elastomeric finish coat; edit to suit project requirements.

* 1. APPLICATION OF FINISH COAT
     1. Apply primer and finish coat in accordance with manufacturer’s instructions.
     2. Apply in number of coats required to produce consistent finish.
     3. Provide [fine spray] [medium spray] [heavy spray] [rolled] [\_\_\_\_] texture to match approved mockup.
     4. Work from wet edges to apply unbroken area in one continuous operation to eliminate joints.
     5. Finish surfaces true to plane, plumb and with neat, sharp corners and intersections.
     6. Work in panels to nearest natural break formed by intersections, corners, trim, and accessories.

Edit the following to suit project requirements.

* 1. CURING
     1. Moist cure Portland cement base coat [and finish coat] with fog spray of clean water applied at frequency to maintain stucco uniformly moist for 48 to 72 hours after application.
     2. Allow to air cure 10 to 14 days prior to applying [acrylic] [elastomeric] finish coat.
     3. [Do not wet cure acrylic or elastomeric finish coat.]
  2. INSTALLATION TOLERANCES
     1. Stucco: Maximum 1/8 inch in 5 feet variation from true flatness.
     2. Trim: Maximum 1/4 inch in 10 feet variation from plumb, level, or true plane, noncumulative.
  3. ADJUSTING
     1. Repair or replace damaged, discolored, and defective work.
     2. Blend patched areas to surrounding surfaces.
  4. CLEANING
     1. Clean stucco from trim and accessories before initial set occurs.

END OF SECTION