

National One Coat Stucco Association (NOCSA)

The National One Coat Stucco Association (NOCSA) releases user from copyright restrictions for the use of the NOCSA Specification System on project specifications produced by the user in the course of normal architectural practice and related activities and intended for use on construction projects. This release is for specific projects only, no release is made for other commercial, for profit or not-for-profit use. User agrees not to utilize NOCSA Specification in any form for resale or other profit-generating activities.

The NOCSA Specification must be edited by a competent design professional to meet specific project requirements. While NOCSA endeavors to offer a master specification free from errors and omissions, we cannot control how the NOCSA Specification is edited, modified, or incorporated into specific projects. User hereby releases NOCSA, its officers, employees and agents from any and all liability arising for the use of this specification on construction projects.

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.

PART 1 - GENERAL

1.1 SUMMARY

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

1.2 REFERENCES

- A. ASTM International (ASTM):
 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.
- B. National One Coat Stucco Association (NOCSA).

1.3 SUBMITTALS

- A. Submittals for Review:
 1. Product Data: Manufacturer's technical information and application instructions.
 2. Samples:
 - a. [6 x 6] [__ x __] inch finish coat samples showing available colors.
 - b. [After color selection, submit] [12 x 12] [__ x __] inch plaster samples showing finish coat in [specified] [selected] color and texture.
 - c. [6] [__] inch long trim samples.
- B. 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.
- C. 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:
 - a. Certify that materials furnished for Project comply with requirements of Contract Documents.
 - b. 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.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum [2] [__] years [documented] experience in work of this Section.
- B. 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.
- C. 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.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original, unopened containers bearing identifying labels.
- B. Store materials off ground or floor, properly covered.
- C. Protect water-based materials from freezing.

1.6 PROJECT CONDITIONS

- A. 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.
- B. 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers:
 - 1. 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. (www.stocorp.com)
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

- A. 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 ****

- B. 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.
- C. 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 ****

D. 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 ****

E. 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 ****

F. 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 ****

G. 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.]

H. Water: Potable.

I. 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.

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

2.3 ACCESSORIES

A. 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.

- B. Tie Wire: 16 gage, galvanized steel, soft annealed.
- C. Bonding Agent: ASTM C932; type recommended for bonding plaster directly to [concrete] [masonry] surfaces.

2.4 MIXES

- A. Mix materials in accordance with manufacturer's instructions.
- B. Use mechanical mixer; hand mixing not permitted unless authorized in advance by Architect.
- C. Mix each batch separately; double batching with single batch discharge not acceptable.
- D. Accurately proportion materials for initial mixture using measuring devices of known volume.
- E. Withhold 10 percent of water until mixing is nearly complete, then add remainder as required to achieve workable mix.
- F. Clean mixing equipment after each batch.
- G. Maintain mixer in continuous operation while adding materials.
- H. Mixtures may be retempered one time after initial mixing.
- I. Discard frozen, caked, and hardened mixes. Discard mixes not used within 60 minutes after initial mixing.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrate surfaces of oil, [release agents,] other deleterious materials, and loose and foreign matter.
- B. [Wet high suction bases with fine water spray to produce uniformly damp surface.] [Apply bonding agent in accordance with manufacturer's instructions.]
- C. Verify that [metal lath] [wire mesh] is tight, properly secured, and overlapped.

3.2 INSTALLATION OF POLYSTYRENE FOAM

- A. Install with long joints continuous and end joints staggered.
- B. Secure to substrate with continuous beads of adhesive.

3.3 INSTALLATION OF METAL TRIM

- A. Install casing beads where stucco abuts dissimilar material or stops with edge exposed.
- B. Install corner beads at external corners.
- C. Install control joints
 1. Locate as follows unless otherwise indicated on Drawings:
 - a. As required to limit each area of plaster to [144] [___] square feet with no dimension exceeding [12] [___] feet.

- b. Vertically above and below each side of openings.
 - c. 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.
- D. Install expansion joints at locations indicated on Drawings.
 - E. Install weep screeds at bottom of wall, [at each floor line,] [and at heads of openings in walls.
 - F. 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.]

3.4 APPLICATION OF BASE COAT

- A. Apply base coat in accordance with manufacturer's instructions.
- B. Apply to minimum 3/8 inch thickness from [face of lath.] [face of [concrete.] [masonry.]]
- C. [Form full keys on lath.] Provide proper consolidation of base coat.
- D. Rod surface to acceptable plane.
- E. Float or lightly broom surface to provide bond with finish coat.

**** OR ****

- F. 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.
- G. Work from wet edges to apply unbroken area in one continuous operation to eliminate joints.
- H. Finish surfaces true to plane, plumb and with neat, sharp corners and intersections.
- I. Work in panels to nearest natural break formed by intersections, corners, trim, and accessories.
- J. Tool base coat to V-joint at trim, grounds and accessories.

3.5 APPLICATION OF FINISH COAT

- A. Apply finish coat in accordance with manufacturer's instructions.
- B. Apply to minimum thickness recommended by manufacturer; using sufficient trowel pressure or spray velocity to bond finish coat to base coat.
- C. Apply in number of coats required to produce consistent finish.
- D. Provide [fine spray] [medium spray] [heavy spray] [smooth trowel] [____] texture to match approved mockup.
- E. Work from wet edges to apply unbroken area in one continuous operation to eliminate joints.
- F. Finish surfaces true to plane, plumb and with neat, sharp corners and intersections.
- G. Work in panels to nearest natural break formed by intersections, corners, trim, and accessories.

- H. Apply fog coat by brush, roller, or spray in number of coats required to produce consistent finish matching approved mockup.
- I. Allow fog coat to dry, then mist with water twice daily for 2 days.

3.6 APPLICATION OF FINISH COAT

- A. Apply primer and finish coat in accordance with manufacturer's instructions.
- B. Apply in number of coats required to produce consistent finish.
- C. Provide [fine spray] [medium spray] [heavy spray] [rolled] [_____] texture to match approved mockup.
- D. Work from wet edges to apply unbroken area in one continuous operation to eliminate joints.
- E. Finish surfaces true to plane, plumb and with neat, sharp corners and intersections.
- F. Work in panels to nearest natural break formed by intersections, corners, trim, and accessories.

3.7 CURING

- A. 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.
- B. Allow to air cure 10 to 14 days prior to applying [acrylic] [elastomeric] finish coat.
- C. [Do not wet cure acrylic or elastomeric finish coat.]

3.8 INSTALLATION TOLERANCES

- A. Stucco: Maximum 1/8 inch in 5 feet variation from true flatness.
- B. Trim: Maximum 1/4 inch in 10 feet variation from plumb, level, or true plane, noncumulative.

3.9 ADJUSTING

- A. Repair or replace damaged, discolored, and defective work.
- B. Blend patched areas to surrounding surfaces.

3.10 CLEANING

- A. Clean stucco from trim and accessories before initial set occurs.

END OF SECTION