

PAREX[®] One-Coat Stucco Specifications **(Grey Couche Concentrate 210)**

CSI SECTION 09 24 00

SECTION 09 24 00—PAREX FIBER-REINFORCED STUCCO

PART 1—GENERAL

1.01 SUMMARY

- A. Section description: Section includes installation of Parex One-Coat Stucco base and Parex finish as an exterior wall cladding.

EDITOR NOTE: DELETE BELOW IF NO SEALANT INSTALLATION IS REQUIRED FOR THE PROJECT.

Products installed but not supplied under this section:

- B. Joint sealant: Refer to Division 7 Joint Treatment (Sealants) section. Installation of joint sealant shall be by coating applicator or a separate installer under direct supervision and control of applicator. Joint sealant installer shall be experienced and competent in the installation of elastomeric construction sealants.

1.02 STUCCO BASE DESCRIPTION

EDITOR NOTE: MODIFY BELOW TO SUIT PROJECT REQUIREMENTS.

- A. Description of Parex One-Coat Stucco:

1. Parex One-Coat Stucco: A proprietary mixture of portland cement, sand, glass fibers, proprietary ingredients installed over wire fabric or metal lath, and Parex acrylic or elastomeric finish as an exterior wall cladding.

- B. Parex One-Coat Stucco functional criteria:

1. General: Stucco application shall be to vertical substrates or to substrates sloped for positive drainage. Non-vertical surfaces shall have additional protection from weather exposure that might be harmful to coating performance.
2. Substrate conditions:
- Substrates shall be sound, dry, and free of dust, dirt, laitance, efflorescence, and other harmful contaminants.
 - Substrate dimensional tolerances: Flat with 1/4 in. (6.4mm) within any 4-foot (1219mm) radius.
 - Maximum deflection of substrate system under positive or negative design loads shall not exceed L/360 of span.
3. Expansion and control joints: Continuous expansion and control joints shall be installed at locations in accordance with manufacturer's recommendations.
- Substrate movement and expansion and contraction of Parex One-Coat Stucco and adjacent materials shall be taken into account in design of expansion joints, with proper consideration given to sealant properties, installation conditions, temperature range, coefficients of expansion of materials, joint width-to-depth ratios, and other material factors. Minimum width of expansion joints shall be as recommended by coating manufacturer.
 - In accordance with ASTM C 1063, expansion and contraction joints shall be installed in walls not more than 144 sq. ft. (13.4m²) in area, and not more than areas of 100 sq. ft. (9.30m²) for all non-vertical applications. The distance between joints shall not exceed 18 ft. (5.5m) in either direction or a length-to-width ratio of 2.5 to 1.



1.03 SUBMITTALS

- A. General: Submit samples, evaluation reports and certificates in accordance with Division 1 General Requirements submittal section.
 - 1. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color and texture to be used on project. Prepare each sample using the same tools and techniques as for actual project application. Maintain and make available, at job site, approved samples.
 - 2. Manufacturer's warranty: Submit sample copies of manufacturer's warranty indicating single source responsibility.

1.04 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: Shall have marketed stucco systems in the United States for at least five years; shall have completed at least 1,000 projects utilizing this stucco system; shall have completed projects of the same building size and type as this project.
 - 2. Applicator: Shall be experienced and competent in the installation of stucco-like materials and shall provide evidence of a minimum of five years experience in work similar to that required by this section.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver coating products in original packaging with manufacturer's identification.
- B. Storage: Store Parex One-Coat Stucco products in a dry location off the ground and protected from moisture conditions harmful to product performance.

1.06 PROJECT/SITE CONDITIONS

- A. Environmental conditions: Comply with manufacturer's recommendations of environmental conditions affecting product performance.
 - 1. Installation ambient air temperature: Minimum of 40°F (4°C) and rising, and remaining so for 24 hours thereafter.
 - 2. Substrate temperature: Do not apply Parex One-Coat Stucco to substrates whose temperature is less than 40°F (4°C) or contains frost or ice.
 - 3. Inclement weather: Do not apply Parex One-Coat Stucco during inclement weather unless appropriate protection is employed, which would negate manufacturer's warranty for installation.
 - 4. Sunlight exposure: When possible, avoid installation of Parex One-Coat Stucco and the finish coat in direct sunlight. Schedule finish coat application at times when wall surfaces are in the shade or not exposed to direct sunlight.
 - 5. Parex One-Coat Stucco materials shall not be applied if ambient temperature exceeds 120°F (49°C) or falls below 40°F (4°C) within 24 hours of application. Protect stucco from uneven and excessive evaporation, especially during hot, dry weather.
 - 6. Prior to installation, the wall shall be inspected for surface contamination or other defects that may adversely affect the performance of Parex One-Coat Stucco, and shall be free of residual moisture.
- B. Coordination and scheduling:
 - 1. Coordination: Coordinate Parex One-Coat Stucco installation with other construction operations.

1.07 WARRANTY

- A. Warranty: Upon request, at the completion of installation, provide Parex Standard Limited Stucco Warranty

PART 2—PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer: Parex, P.O. Box 189, Redan, GA 30074
 - 1. Parex One-Coat Stucco
 - a. Stucco base: Premixed fiber-reinforced stucco, factory-blended portland cement, chopped fiber strands, and proprietary additives.
 - b. Prime coat: Parex Primer 310 and Sanded Primer 313, acrylic polymer coating, tinted to match textured finish color.

2. Parex finish
 - a. Type: _____
 - b. Texture: _____
 - c. Color: _____

2.02 MATERIALS

- A. Stucco materials: Fiber-Reinforced Stucco (Concentrate): Parex One-Coat Stucco is a proprietary mixture of portland cement, glass fibers, and proprietary ingredients. Five to seven gallons (19–27L) of clean, potable water and approximately 225 lb. (102kg) of sand, complying with ASTM C-144, are to be field-added.
- B. Parex Adacryl: 100% acrylic emulsion additive for portland cement-based products to enhance curing, adhesion, freeze-thaw resistance, and workability.
- C. Leveling and reinforcing coat
 1. Parex Base Coat & Adhesive 121: 100% acrylic polymer base, requiring the addition of portland cement.
 2. Parex Base Coat & Adhesive 121 Dry: Copolymer-based factory blend of cement and proprietary ingredients.
 3. Parex Base Coat & Adhesive 121 XL: Copolymer-based factory blend of cement and proprietary ingredients.
 4. Parex Standard Mesh 355: Weight 4.5 oz. per sq. yd. (153g/m²) coated for protection against alkali.
- D. Parex primers:
 1. Primer 310: 100% acrylic-based coating to prepare surfaces for Parex finishes.
 2. Sanded Primer 313: 100% acrylic-based coating to prepare surface for Parex Cerastone finish.
- E. Parex finish:
 1. Parex e-lastic Finish: Factory-blended, 100% acrylic polymer-based elastomeric synthetic finish, integrally colored. Finish type, texture, and color as selected by architect.
 2. Parex Finish: Factory-blended, 100% acrylic polymer-based synthetic finish, integrally colored. Finish type, texture, and color as selected by architect.

2.03 RELATED MATERIALS

- A. General: Related materials shall conform to the requirements of ICBO ES Evaluation Report No. 4658 and shall conform to this specification.
- B. Substrate materials:
 1. Gypsum sheathing: Gypsum sheathing board: Minimum ½ in. (12.7mm) thick, core-treated, weather-resistant, exterior gypsum sheathing complying with ASTM C 79 or ASTM C 1177 and complying with U.B.C. Standard No. 47-10.
 2. Cement board sheathing conforming to ASTM C 1186.
 3. Fiberboard: Minimum ½ in. (12.7mm) thick fiberboard complying with U.B.C. Standard No. 25-24.
 4. Plywood: Minimum 5/16 in. (7.9mm) thick exterior-grade or exposure 1 plywood for studs spaced 16 in. (406.4mm) o.c. and 3/8 in. (9.5mm) thick exterior-type plywood minimum for studs spaced 24 in. (609.6mm) o.c. Plywood shall comply with U.B.C. Standard No. 25-9.
 5. Oriented Strand Board (OSB): Minimum 7/16 in. (11mm) thick, exposure 1, may be used with framing as for plywood.
 6. Concrete (poured or precast) and masonry.
- C. Water-Resistive Barriers:
 1. For non-wood based sheathing shall be either:
 - a. 1 layer of Parex KeyGuard 495 with Parex Sheathing Tape 396 embedded at sheathing joints plus 1 layer of asphalt saturated Kraft building paper conforming to Federal Standard UU-B-790a or U.B.C. Standard No. 14-1 or other non-adhering recognized equivalent.
 - b. 1 layer Grade D asphalt saturated Kraft building paper as above.
 - c. 1 layer asphalt-saturated felt complying with ASTM D226 Type I.
 - d. Other recognized equivalent.
 2. For wood based sheathing shall be either:
 - a. 1 layer of Parex KeyGuard 495 with Parex Sheathing Tape 396 embedded at sheathing joints plus 1 layer of asphalt saturated Kraft building paper as above, or other non-adhering recognized equivalent.
 - b. 2 layers of Grade D asphalt saturated Kraft building paper as above or recognized equivalent.

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3. For wood based sheathing with foam plastic insulation installed over the water-resistive barrier shall be either:
 - a. 1 layer of Parex KeyGuard 495 with Parex Sheathing Tape 396 embedded at sheathing joints plus 1 layer of Grade D asphalt saturated Kraft building paper as above, or other non-adhering recognized equivalent.
 - b. 1 layer of 60 minute moisture resistance rated Grade D asphalt saturated Kraft building paper as above or other recognized equivalent.
- D. Air Barrier (Optional):
 1. For all sheathing types, a combination air/water-resistive barrier shall be one layer of the Parex KeyGuard 495 roll-on barrier with all sheathing joints treated with Parex Sheathing Tape 396 embedded at sheathing joints plus 1 layer of non-adhering recognized water-resistive barrier.
- E. Lath: Lath and accessories as specified in ASTM C 847 and ASTM C 1063 and Appendix.
- F. Seals, sealants, and bond breakers: Sealants shall conform to ASTM C 920, Grade NS, Class 25, Use NT. Backer rod shall be closed-cell polyethylene foam.

PART 3—EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's instructions for installation of one-coat stucco.

REMINDER: PAREX ONE-COAT STUCCO IS INSTALLED OVER WEATHER BARRIER BUILDING PAPER. ONE-COAT STUCCO PERFORMANCE IS DEPENDENT UPON—AMONG OTHER FACTORS—THE IMPORTANCE OF PROPER FLASHING AND JOINT SEALING AND ATTENTION TO PROPER FLASHING AND JOINT SEALANT DETAILS INDICATED ON DRAWINGS.

- B. Substrate examination: Examine prior to Parex One-Coat Stucco installation as follows:
 1. Substrate shall be of a type approved by Parex. Plywood and OSB substrates shall be gapped 1/8 in. (3mm) between panels, except that the 4-foot edges of OSB panels shall be gapped ¼ in. (6.4mm).
 2. Substrate shall be examined for soundness and other harmful conditions.
 3. Substrate shall be free of dust, dirt, laitance, efflorescence, and other harmful contaminants.
- C. Advise contractor of discrepancies preventing the installation of the Parex One-Coat Stucco. Do not proceed with the one-coat stucco work until unsatisfactory conditions are corrected.
- D. Correction of unsatisfactory conditions of substrates installed by other trades shall be the responsibility of the contractor.

3.02 RELATED MATERIALS INSTALLATION

- A. General: Installation of related materials shall conform to this specification.
- B. Substrate materials:
 1. Substrate construction in accordance with substrate material manufacturer's specifications and applicable building codes.
 2. Maximum deflection of the substrate shall be limited to L/360.
- C. Weather-resistive barrier: The weather-resistive barrier is placed over all substrates except concrete or masonry.
- D. Lath and accessories: Install in accordance with ASTM C 1063 and Appendix and applicable building codes.
- E. Sealants and backer rod: To be installed, where required, in accordance with the sealant manufacturer's specifications and published literature, and using the sealant manufacturer's recommended primers.

3.03 PREPARATION

- A. Field mixing: Mix Parex proprietary products in accordance with manufacturer's instructions, including Parex One-Coat Stucco product data sheet.

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3.04 INSTALLATION

- A. General: Parex One-Coat Stucco installation shall conform to this specification and to Parex product data sheets.
- B. Stucco:
 - 1. The Parex One-Coat Stucco mixture shall be applied in one or two coats to a minimum thickness of 3/8 in. (9.5mm) by hand troweling or machine spraying the mixture to the wire lath in accordance with Parex One-Coat Stucco product data sheet. The maximum thickness applied in one pass is 5/8 in. (16mm).
 - 2. If portland cement stucco finish coat is being used and is not applied within 48 hours, a bonder shall be sprayed on the base coat or added to the portland cement finish stucco mix for additional bonding.
 - 3. Keep stucco moist for at least 24 hours (longer in dry weather) by lightly fogging walls. Start light fogging after initial set of 1–2 hours.
 - 4. Allow Parex One-Coat Stucco to dry thoroughly to a pH of 9.5 or lower before applying acrylic primers or finishes.
- C. Optional leveling coat:
 - 1. Using a stainless steel trowel, apply Parex Base Coat & Adhesive 121, 121 Dry, or 121 XL over the Parex One-Coat Stucco at a thickness of 1/16–3/32 in. and trowel smooth.
- D. Optional leveling and reinforcing coat:
 - 1. Using a stainless steel trowel, apply Parex Base Coat & Adhesive 121, 121 Dry, or 121 XL over the Parex One-Coat Stucco at a thickness of 1/16–3/32 in.
 - 2. Immediately embed the Parex Standard Reinforcing Mesh into the wet base coat material with a trowel until the reinforcing mesh is fully embedded and the base coat thickness is approximately 1/16 in.
 - 3. The color of the reinforcing mesh should not be visible at the surface of the base coat.
- E. Finish: Apply according to Parex Product Data Sheet.

3.05 CLEAN-UP

- A. Removal: Remove and legally dispose of Parex One-Coat Stucco installation debris material from job site.

END OF SECTION

Obligatory Disclaimer Statement

This guide specification is intended for use by a qualified designer. The guide specification is not intended to be used verbatim as an actual specification without appropriate modifications for the specific use intended. The guide specification must be integrated into and coordinated with the procedures of each design firm, and the requirements of a specific project.

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