

CSI SECTION 09 24 00 – PORTLAND CEMENT PLASTER ***Fiber Reinforced One-Coat Stucco with Enhanced Crack Resistance (Optional)***

SYSTEM OVERVIEW

The Armourwall 100 Stucco system, when installed over CMU, can be either direct applied or installed with lath as per this specification.

For direct application, See Armourwall 100 on CMU Stucco System Specification. Additional information is also provided in Technical Bulletin, [Stucco over metal lath attached to CMU PUSA 66-12.pdf](#)

The Armourwall 100 System is qualified on fire rated and non-combustible construction. Specifics for these wall systems and allowable continuous insulation thickness are listed in the ICC Evaluation Report ESR 2564.

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Supply and installation of fiber reinforced, one-coat stucco system with optional enhanced crack resistance.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Section 04 20 00 - Unit Masonry
- C. Section 06 16 00 - Sheathing
- D. Section 07 25 00 - Weather Barriers
- E. Section 07 62 00 - Sheet Metal Flashing and Trim
- F. Section 07 90 00 - Joint Protection
- G. Section 08 50 00 - Windows
- H. Section 09 21 16 - Gypsum Board Assemblies

1.3 REFERENCES

- A. ASTM C144 Standard Specification for Aggregate for Masonry Mortar
- B. ASTM C578 Specification for Preformed, Cellular Polystyrene Thermal Insulation
- C. ASTM C847 Standard Specification for Metal Lath
- D. ASTM C897 Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plaster
- E. ASTM C926 Standard Specification for Application of Portland Cement-Based Plaster
- F. ASTM C933 Standard Specification for Welded Wire Lath
- G. ASTM C1032 Standard Specification for Woven Wire Plaster Base
- H. ASTM C1063 Standard Specification for Installation of Lathing and Furring for Portland Cement Based Plaster
- I. ASTM C1177 Specification for Glass Mat Gypsum for Use as Sheathing
- J. ASTM C1278 Specification for Fiber-Reinforced Gypsum Panel
- K. ASTM C1396 Standard Specification for Gypsum Board
- L. ASTM E84 Test Method for Surface Burning Characteristics of Building Materials
- M. ASTM E119 Method for Fire Tests of Building Construction and Materials
- N. ASTM E330 Test Method for Structural Performance of Windows, Curtain Walls, and Doors by Uniform Static air Pressure Difference
- O. ASTM G153 Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
- P. ICC AC 11 Acceptance Criteria for Cementitious Exterior Wall Coating
- Q. ICC AC 219 Acceptance Criteria for Exterior Insulation And Finish Systems

1.4 SYSTEM DESCRIPTION

- A. One-Coat Stucco System: water resistive barrier sheet, wire fabric or metal lath, pre-mixed stucco base coat, and either an acrylic or elastomeric based finish coat.
- OR-
- B. One-Coat Stucco System: with Enhanced Crack Resistance: water resistive barrier sheet, wire fabric or metal lath, pre-mixed stucco base coat, fiberglass reinforcing mesh embedded in stucco leveling coat, and either an acrylic or elastomeric based finish coat.
- C. Stucco Functional Criteria:
1. General: Stucco application shall be to vertical substrates or to substrates sloped for positive drainage. Substrates sloped for drainage shall have additional protection from weather exposure that might be harmful to coating performance.
 2. Testing to meet International Code Council Acceptance Criteria AC11.
 3. Performance Requirements of Stucco System:

Test	Method	ICC AC 11 Criteria	Results
Accelerated Weathering	ASTM G153	2000 Hours	No deleterious effect
Freeze-Thaw Resistance	ICC AC 11	10 cycles	Pass
Transverse Wind Load Resistance	ASTM E330	Meet Design Loads	Refer to ICC-ES ESR-2564
Fire Resistance	ASTM E119	One hour fire	Refer to ICC-ES ESR-2564
Drainage	ICC AC 11	90 %	Refer to ICC-ES ESR-2564

4. Performance Requirements of Coatings applied to Expanded Polystyrene features: Must comply with ASTM E 2568 or ICC Acceptance Criteria AC 219 for EIFS.
 5. Substrate materials and construction shall conform to the building code having jurisdiction.
 6. Substrates shall be sound, dry and free of dust, dirt, laitance, efflorescence and other harmful contaminants.
 7. Substrate Dimensional Tolerances: Flat with 1/4 in (6.4 mm) within any 10 ft (3 m) radius.
 8. Maximum deflection of substrate system under positive or negative design loads shall not exceed L/360 of span.
- D. Expansion and Control Joints: Continuous expansion and control joints shall be installed at locations in accordance with ASTM C1063 and ASTM C926.
1. Substrate movement, and expansion and contraction of 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 specified by the designer or shown on the project drawings.
 2. In accordance with ASTM C1063, expansion or control joints shall be installed in walls not more than 144 ft² (13.4 m²) in area, and not more than 100 ft² (9.3 m²) in area for all non-vertical applications. The distance between joints shall not exceed 18 ft (5.5 m) in either direction or a length-to-width ratio of 2-½ to 1.

1.5 SUBMITTALS

- A. General: Submit Samples, Evaluation Reports and manufacturer's product data sheets in accordance with Division 1 General Requirements Submittal Section.
- B. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color and texture used on project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available, at job site, approved samples.

- C. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty indicating Single Source Responsibility for stucco system materials.

1.6 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: Shall have marketed stucco systems in United States for at least ten years and shall have completed projects of same general scope and complexity.
 - 2. Applicator: Shall be experienced and competent in installation of stucco materials, and shall provide evidence of a minimum of five years' experience in work similar to that required by this section.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver stucco system materials in original packaging with manufacturer's identification.
- B. Storage: Store stucco system materials in a dry location, out of direct sunlight, off the ground, and protected from moisture.

1.8 SITE / ENVIRONMENTAL CONDITIONS

- A. Substrate Temperature: Do not apply stucco system materials to substrates whose temperature are below 40°F (4°C) or contain frost or ice.
- B. Inclement Weather: Do not apply stucco system materials during inclement weather, unless appropriate protection is employed.
- C. Sunlight Exposure: Avoid, when possible, installation of the stucco system materials in direct sunlight. Application of finishes in direct sunlight in hot weather may adversely affect aesthetics.
- D. Do not apply stucco base coats or finishes if ambient temperature falls below 40°F (4°C) within 24 hours of application. Protect stucco materials from uneven and excessive evaporation during dry weather and strong blasts of dry air.
- E. Prior to installation, the substrate shall be inspected for surface contamination, or other conditions that may adversely affect the performance of the stucco system materials, and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING

- A. Coordination: Coordinate stucco system installation with other construction operations.

1.10 WARRANTY

- A. Warranty: Upon request, at completion of installation, provide manufacturer's Standard Limited Warranty.

EDITOR NOTE: SEE MANUFACTURER'S WARRANTY SCHEDULE FOR AVAILABLE STUCCO SYSTEM WARRANTIES.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer, Basis of Design: Parex USA, Inc., 4125 E. La Palma Ave., Suite 250, Anaheim, CA 92807 Contact: Architectural Sales (866.516.0061) or Technical Support (800.226.2424).
- B. Components: Obtain components manufactured by Parex USA of Parex Armourwall 100 Stucco System from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Parex USA for this project.

2.2 MATERIALS

EDITOR NOTE: STUCCO BASE MAY BE APPLIED IN 2 PASSES UP TO AN APPROXIMATE THICKNESS OF BETWEEN 3/4 AND 7/8 INCHES. WHEN INSTALLED AT THIS THICKNESS IT MUST BE MOIST CURED IN ACCORDANCE WITH IBC OR IRC, AS APPLICABLE, FOR PORTLAND CEMENT PLASTER.

- A. Parex Armourwall 100 Stucco Base (3/8 in – 1/2 in per coat):
 - [1. 210 Armourwall Stucco Base™ Concentrate: Proprietary mixture of portland cement and proprietary ingredients mixed with clean, cool, potable water, and ASTM C897 or ASTM

C144 sand added in the field.

-OR-

- [2. 202 Armourwall Stucco Base™ Sanded: Proprietary mixture of portland cement, and proprietary ingredients mixed with clean, cool, and potable water in the field.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE OPTIONAL ACRYLIC EMULSION FOR ENHANCED PERFORMANCE.

B. Stucco Admix

1. Parex USA Adacryl Admix & Bonding Agent: 100% acrylic emulsion additive for portland cement based products to enhance curing, adhesion, freeze-thaw resistance and workability and as an acrylic polymer bonding agent.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE LEVELING AND REINFORMING COAT (C.) FOR ENHANCED CRACK RESISTANCE.

C. Leveling and Reinforcing Coat:

1. Parex USA Stucco Level Coat™: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
2. Parex 121 Base Coat & Adhesive: 100% acrylic polymer base, requiring the addition of portland cement.
3. Parex 121 Dry Base Coat & Adhesive: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
4. Parex USA Reinforcing Meshes:
 - [a. Parex USA Stucco Mesh: Weight 4.5 oz/yd² (153 g/m²) reinforcing mesh.
 - [b. Parex USA 355 Standard Mesh: Weight 4.5 oz/yd² (153 g/m²) reinforcing mesh.
 - [c. Parex USA 358.10 Intermediate Mesh: Weight 12 oz/yd² (407 g/m²) reinforcing mesh.

EDITOR NOTE: STUCCO LEVEL COAT MUST NOT BE USED AS AN ADHESIVE OR BASE COAT FOR EXPANDED POLYSTYRENE INSULATION BOARD SHAPES OR FEATURES.

D. Expanded Polystyrene Features over Stucco:

1. Adhesive and Base Coat:
 - a. Parex 121 Dry Basecoat and Adhesive: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
 - b. Parex 121 Optimum Base Coat & Adhesive Base Coat & Adhesive: 100% acrylic polymer base, requiring the addition of portland cement.
 - c. Parex 121 Base Coat & Adhesive: 100% acrylic polymer base, requiring the addition of portland cement.
2. Insulation Board:
 - a. In compliance with manufacturer's requirements for Parex CI systems.
 - b. Produced and labeled under a third party quality program as required by applicable building code; and produced by a manufacturer approved by Parex USA.
 - c. Shall conform to ASTM C578, ASTM E2430 Type I, and the Parex USA specification for Molded Expanded Polystyrene Insulation board.
3. Reinforcing Mesh:
 - a. Parex USA 355 Standard Mesh: Weight 4.5 oz/yd² (153 g/m²) reinforcing mesh.
 - b. Parex USA 356 Short Detail Mesh: Reinforcing mesh used for backwrapping and details.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE PRIMER FOR MAXIMUM FINISH MATERIAL COVERAGE, AESTHETICS, AND EXTENDED WARRANTY.

E. Primer:

1. Parex USA Primer: 100% acrylic based primer to prepare surfaces for acrylic or elastomeric finishes.
2. Parex USA PrimeShield: 100% acrylic based primer to prepare surfaces for acrylic or elastomeric finishes.
3. Parex USA QuikCure: 100% acrylic based primer to prepare surfaces for acrylic or elastomeric finishes.
4. Variance VariPrime Sanded: 100% acrylic based primer to prepare surface for exposed aggregate specialty finishes.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE FINISH TYPE, TEXTURE, & COLOR WITH ACCESSORY MATERIALS TO CREATE DESIRED EFFECT.

F. Finish and Coatings:

1. Parex Ultra e-Lastic: A premium 100% acrylic-based elastomeric textured finish, integrally colored. Finish type, texture and color as eslected by Project Designer.
2. Parex e-Lastic® Finish: Factory blended, 100% acrylic polymer based elastomeric textured finish, integrally colored. Finish type, texture and color as selected by Project Designer
3. Parex AquaSol: 100% acrylic polymer based finish, enhanced DPR acrylic finish with hydrophobic and photocatalytic properties, repels water, reflects UV rays, and reduces smog particles near the finish surface. Finish type, texture and color as selected by Project Designer.
4. Parex DPR Optimum Finish: Factory blended, 100% acrylic polymer based finish, integrally colored. Finish type, texture and color as selected by Project Designer.
5. Parex DPR Standard Finish: Factory blended, 100% acrylic polymer based finish, integrally colored. Finish type, texture and color as selected by Project Designer.
6. Parex USA Elastomeric Coating: A 100% acrylic Elastomeric nontextured coating. Highly flexible: can bridge existing hairline cracks. Integrally colored with high quality pigments. Integrally colored with high quality pigments. Color as selected by Project Designer.
7. ParexAquaSol™ Coating: An acrylic-based exterior coating with hydrophobic and photocatalytic technology. AquaSol Coating cleans itself, is heat reflective and has pollution reducing properties. Integrally colored with high quality pigments. Color as selected by Project Designer.
8. Parex USA DPR Coating: 100% acrylic-based coating. DPRThe non-tacky surface provides high resistance to accumulation of dirt, mold, and pollutants. Excellent hiding power as well as flexibility and drying characteristics. Integrally colored with high quality pigments. Color as selected by Project Designer.

EDITOR NOTE: ADD COLORFAST PIGMENTS TO ANY PRE-TINTED ACRYLIC OR ELASTOMERIC FINISH SELECTION ABOVE FOR SATURATED/BRIGHTER AND INCREASED FADE RESISTANCE AND TO QUALIFY FOR A COLOR FADE WARRANTY.

- a. Parex USA ColorFast Pigments System: Fade resistant pigment system offering superior fade resistance; factory tinted only; used—with any Parex USA acrylic or elastomeric finish or coating.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE FINISH TYPE, TEXTURE, & COLOR WITH ACCESSORY MATERIALS TO CREATE DESIRED EFFECT.

9. Parex USA Variance Finish [enter selected product]: Acrylic-based specialty finish. Finish type, texture and color as selected by Project Designer.
 - a. LaHabra Color Pack: factory blended, powdered oxide pigment blend for use with decorative coating compounds. Use as recommended by decking manufacturer to achieve desired finish.
 - b. Variance Antiquing Gel: a water-based, tinted, semi-transparent, acrylic emulsion for staining, sealing, and protecting concrete, masonry and other cementitious substrates. Use as required to achieve desired finish.

- c. Variance VariSeal is a 100% acrylic, water based sealer. Improves scratch and scuff resistance and adds depth of color.

EDITOR NOTE: ADD CLEAR SEALER WHERE ENHANCED CLEANABILITY IS DESIRED FOR HIGH SOILING EXPOSURES.

- 10. Parex USA Clear Sealer: 100% acrylic, transparent, permeable, dirt resistant sealer for use as a protective coating over acrylic finishes. Use Parex USA 600 Clear or 610 Matte Clear as detailed on drawings.

G. Water: Clean, cool, potable water.

2.3 RELATED MATERIALS AND ACCESSORIES

- A. General: Stucco system materials and related materials shall conform to the requirements of ICC-ES Evaluation Report No. 2564 and shall conform to this specification.
- B. Substrate Materials:
 - 1. Gypsum Sheathing: Minimum 1/2 in (13 mm) thick, core-treated, weather-resistant, exterior gypsum sheathing complying with ASTM C79 or ASTM C1177.
 - 2. Cement Board Sheathing, Minimum 1/2 in thick, conforming to ASTM C1186.
 - 3. Fiberboard: Minimum 1/2 in (13 mm) thick fiberboard complying with ANSI/AHA A194.1 as a regular density sheathing.
 - 4. Plywood: Minimum 5/16 in (8 mm) thick exterior grade or Exposure I plywood for studs spaced 16 in (406 mm) o.c. and 3/8 in (9 mm) thick exterior type plywood minimum for studs spaced 24 in (610 mm) o.c. Plywood shall comply be exterior grade or Exposure 1 and comply with DOC PS-1.
 - 5. Oriented Strand Board (OSB): 7/16 -1/2 in Wall-16 or Wall-24, approved by the APA, TECO, or PSI/PTL. Stamped as Exposure 1 or Exterior Sheathing with a PS2 or PRP-108 rating. For OSB limitations on See Parex USA Technical Bulletin; EIFS and Stucco; Acceptable Substrates and Areas of Use.
 - 6. Concrete Masonry Construction: Painted (coated) and non-painted (uncoated). Shall be in conformance with the building code.
 - 7. Other Approved by stucco system manufacturer in writing prior to the project.
- C. Water-Resistive Barriers:
 - 1. For non-wood based sheathing shall be either:
 - a. 1 layer asphalt-saturated felt complying with ASTM D 226 Type I.
 - b. Lath with appropriate paper backing.
 - c. Other recognized equivalent.
 - 2. For wood based sheathing shall be either:
 - a. 2 layers of Grade D asphalt saturated Kraft building paper, or 1 layer of the Kraft building paper plus paper backed lath.
 - b. Other recognized equivalent.
 - 3. Open Framing:
 - a. 1 layer Grade D asphalt saturated Kraft building paper.
 - b. 1 layer asphalt-saturated felt complying with ASTM D 226 Type I.
 - c. Other recognized equivalent.

EDITOR NOTE: FOR THE USE OF CONTINUOUS INSULATION AND REQUIRED DRAINAGE FOLLOW THE ARMOURWALL 100 HE SPECIFICATIONS.

EDITOR NOTE: THE SELECTION OF AN APPROPRIATE TYPE OF MATERIAL FOR LATH AND ACCESSORIES SHALL BE DETERMINED BY APPLICABLE SURROUNDING CLIMATIC AND

ENVIRONMENTAL CONDITIONS SPECIFIC TO THE PROJECT LOCATION, SUCH AS SALT AIR, INDUSTRIAL POLLUTION, HIGH MOISTURE, OR HUMIDITY.

- D. Lath and Accessories: Conform to ASTM C847, ASTM C933, ASTM C1032, ASTM C1063 and Appendix.
 - 1. Accessories: Manufacturer's standard steel products with minimum G60 galvanizing unless otherwise indicated as rigid polyvinyl chloride (PVC plastic) or zinc alloy.

EDITOR NOTE: SELECT LATH TYPE AND WEIGHT.

- 2. Metal Plaster Bases: Minimum 17 gauge self-furred stucco netting, minimum 2.5 lb/yd² (1.4 kg/m²) or 3.4 lb/yd² (1.8 kg/m²) expanded metal diamond lath, or welded wire lath in accordance with applicable codes and standards.
- 3. Weep Screeds: Foundation weep screed with minimum 3-1/2 inch vertical attachment flange.

EDITOR NOTE: THE SELECTION AND USE OF AN APPROPRIATE TYPE OF SEALANT SHALL BE DETERMINED BY APPLICABLE SURROUNDING CLIMATIC AND ENVIRONMENTAL CONDITIONS SPECIFIC TO THE PROJECT LOCATION.

- E. 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

3.1 EXAMINATION

- A. Verify project site conditions under provisions of Section 01 00 00.
- B. Compliance: Comply with manufacturer's instructions for installation of stucco system materials.

REMINDER: STUCCO SYSTEM MUST INSTALLED OVER A CODE COMPLYING WATER RESISTIVE BARRIER OR SOLID SURFACE OD MASONRY OR CONCRETE. WALL PERFORMANCE IS DEPENDENT UPON, AMONG OTHER FACTORS, PROPER FLASHING AND JOINT SEALING, AND ATTENTION TO PROPER FLASHING AND JOINT SEALANT DETAILS INDICATED ON DRAWINGS.

- C. Substrate Examination: Examine prior to stucco base installation as follows:
 - 1. Substrate shall be of a type approved by stucco system manufacturer and the building code having jurisdiction. Plywood and OSB substrates shall be gapped 1/8 in (3.2 mm) at all edges.
 - 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.
 - 4. Substrate construction in accordance with substrate material manufacturer's specifications and applicable building codes.
- D. Advise Contractor of discrepancies preventing proper installation of stucco system. Do not proceed with the stucco system work until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. Water-Resistive Barrier:
 - 1. The water-resistive barrier is placed over all substrates except concrete or unpainted masonry. Painted (coated) CMU is to use a bond breaker such as asphalt paper and lath if the paint or coating cannot be removed.
 - 2. Installed according to manufacturer's instructions.

EDITOR NOTE: FOR THE USE OF CONTINUOUS INSULATION AND REQUIRED DRAINAGE FOLLOW THE ARMOURWALL 100 HE SPECIFICATIONS.

IMPORTANT EDITOR NOTE: COORDINATE TERMINATIONS OF STUCCO ACCESSORIES WITH SEALANT SECTION OF THE SPECIFICATION IN ORDER TO LEAVE REQUIRED SPACINGS FOR SPECIFIED JOINT DIMENSIONS.

- B. Wire Fabric Lath and Metal Lath: Install according to ICC Evaluation Report ESR 2564, ASTM

C1063 and Appendix and the Building Code.

FOR DIRECT APPLICATION TO CONCRETE OR MASONRY, SEE ARMOURWALL 100 ON CMU STUCCO SYSTEM SPECIFICATION.

- C. Concrete (Cast-in-Place): Provide a surface that is straight and true to line and plane. Remove form ties and trim projecting concrete so it is even with the plane of the wall. Remove form release agents.
- D. Concrete Masonry Units: Remove projecting joint mortar so it is even with the plane of the wall.
- E. Ensure that metal flashing has been installed per Specification Section 07 60 00 - Flashing and Sheet Metal.

3.3 MIXING

- A. Mix proprietary products in accordance with manufacturer's instructions, including the applicable stucco system product data sheets and application guidelines.
- [B. Admix: Parex USA Adacryl
 - 1. Mix up to 1 gal (3.8 L) per 1 bag of Parex 210 Armourwall Stucco Base Concentrate. Mix up to 1 qt (1 L) per bag of Parex 202 Armourwall Stucco Base Sanded. Add after dry components and the majority of the water has been mixed. Mix no longer than required to provide a uniform mixture. DO NOT OVER-MIX. Overmixing entrains excessive amounts of air which weaken the material. Do not re-temper mixes over 20 minutes old.

3.4 APPLICATION

- A. General: Stucco system and its related materials shall conform to the requirements of ICC-ES Evaluation Report No. 2564 and shall conform to this specification. Follow Parex USA's current Stucco Application Guide.
- [B. Bonding Agent: Parex USA Adacryl for use between cementitious coats.
 - 1. Apply at the rate of 250 sq. ft. per gallon using a low-pressure sprayer brush- or roller. (application in direct sunlight may cause the product to dry too quickly)
 - 2. Stucco finishes or other cement products can still be applied after Bonding Agent becomes tacky up to 72 hours after application, but not while wet.
- C. Stucco Base:
 - 1. Either Parex Armourwall Stucco mixtures shall be applied in one or two coats to a minimum thickness of 3/8 in (9.5 mm) per coat by hand troweling or machine spraying the mixture to the wire lath in accordance with manufacturer's product data sheets and application guidelines. The maximum thickness applied in one pass is 1/2 in (17 mm).
 - 2. Rod surface to true plane and float to densify.
 - 3. Trowel to smooth and uniform surface to receive acrylic or elastomeric finish coat.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE LEVELING AND REINFORCING COAT (D.) FOR ENHANCED CRACK RESISTANCE.

- D. Leveling and Reinforcing Coat:
 - 1. After Moist Curing, allow stucco base coat to air dry a minimum of 24 hours before applying the leveling and reinforcing coat.
 - 2. Using a stainless steel trowel, apply the stucco leveling coat over the stucco base coat at a thickness of 1/16 to 3/32 in (1.6 – 2.4 mm).
 - 3. Fully embed reinforcing mesh, either Stucco Mesh, 355 Standard Mesh or 358.10 Intermediate Mesh, into wet stucco level coat, including diagonal strips at corners of openings and trowel smooth. If Stucco Mesh or 355 Standard Mesh is used, seams are overlapped 2-1/2 in (63 mm); if 358.10 Intermediate Mesh is used, seams are butted and covered by strips of 356 Detail Mesh.
 - 4. The acrylic primers and finishes can be applied as soon as the stucco leveling coat has dried,

typically within 24 hours.

- E. Expanded Polystyrene Featured over Stucco Base Coat:
 - 1. Install back-wrap mesh at EPS terminations.
 - 2. Apply adhesive to backs of insulation boards with a notched trowel. Allow to dry a minimum of 12 hours.
 - 3. Apply base coat material to the entire foam shape and pull the backwrap mesh around the foam shapes and fully embed it into the base coat.
 - 4. Immediately embed the reinforcing mesh in the wet base coat.
- F. Primer and Finish:
 - 1. Remove surface contaminants such as dust or dirt without damaging the substrate.
 - 2. Ambient and surface temperature must be 40°F (4°C) or higher during application and drying time. Supplemental heat and protection from precipitation must be provided as needed.
 - 3. Use only on surfaces that are sound, clean, dry, unpainted, and free from any residue that might affect the ability of the finish to bond to the surface.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE #4 OR #5.

- 4. Parex Armourwall 100 Krak-Shield Stucco System:
 - a. Before the application of the finish, the base coat must have cured a minimum of 24 hours or longer as required by conditions. Examine the cured base coat for any irregularities.
 - b. Correct these irregularities to produce a flat surface.
- OR-
- 5. Parex Armourwall 100 Stucco System:
 - a. After moist curing, allow the stucco base to air dry in accordance with Stucco Application Guide depending on type of finish coat and primer.
- 6. Apply primer as directed in manufacturer's product data sheet and application guide.
- 7. Apply exterior wall finish in number of coats thickness recommended by manufacturer to achieve texture indicated, using sufficient trowel pressure or spray velocity to bond finish to base coat.
- 8. Protect finish coats from inclement weather until completely dry.
- G. Curing:
 - 1. Keep stucco base coat moist for at least 48 hours (longer in dry weather) by lightly fogging walls. Start light fogging after initial set of 1–2 hours.
 - 2. Air dry acrylic based and elastomeric finish coats only, do not wet cure.

3.5 CLEAN-UP

- A. Removal: Remove and legally dispose of stucco component debris material from job site.

3.6 PROTECTION

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed stucco from dust, dirt, precipitation, and freezing during installation.
- C. Provide protection of installed finish from dust, dirt, precipitation, freezing, and continuous high humidity until fully dry.
- D. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Designer/Owner.

END OF SECTION

Disclaimer: 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. For additional assistance, contact Parex USA's Architectural Sales (866.516.0061) or Technical Support (800-226-2424).