



# Fiber-47 300 AF on CMU Specifications

## CSI SECTION 09 24 00

### CSI SECTION 09 24 00 – PORTLAND CEMENT PLASTER

#### El Rey Fiber-47 300 Fiber Reinforced Stucco

#### Acrylic or Elastomeric Finish

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Installation of El Rey Fiber-47 300 Stucco Assemblies on CMU.

#### 1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Section 04 20 00 - Unit Masonry
- C. Section 07 27 00 - Air Barriers
- D. Section 07 62 00 - Sheet Metal Flashing and Trim
- E. Section 07 90 00 - Joint Protection
- F. Section 08 50 00 - Windows

#### 1.3 REFERENCES

- A. ASTM C897 - Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plaster
- B. ASTM C926 - Standard Specification for Application of Portland Cement-Based Plaster
- C. ASTM C1278 - Specification for Fiber-Reinforced Gypsum Panel
- D. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials
- E. ASTM E119 - Method for Fire Tests of Building Construction and Materials
- F. ASTM E330 - Test Method for Structural Performance of Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
- G. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

#### 1.4 ASSEMBLY DESCRIPTION

- A. El Rey Fiber-47 300 Stucco Assembly on CMU: Optional Bonding Agent, El Rey Fiber-47 Scratch & Brown (El Rey Fiber-47 Scratch & Brown Concentrate or El Rey Fiber-47 Scratch & Brown Sanded) and either an acrylic or elastomeric based finish coat.

#### 1.5 SUBMITTALS

- A. General: Submit Samples, Certificates 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.

## 1.6 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Manufacturer: Shall have marketed stucco assemblies in United States for at least five years; At least 1,000 projects shall have been completed utilizing this type of stucco assembly; Shall have completed projects of same building size and type as this project.
  - 2. Applicator: Shall be experienced and competent in installation of stucco-like materials, and shall provide evidence of a minimum of 5 years experience in work similar to that required by this section.
- B. El Rey Fiber-47 300 Stucco Assembly 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.
- C. Substrate Conditions:
  - 1. Substrates shall be sound, dry and free of dust, dirt, laitance, efflorescence and other harmful contaminants.
  - 2. Substrate Dimensional Tolerances: Flat with 1/4 in (6.4 mm) within any 4 ft (1219 mm) radius.
  - 3. 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 El Rey Fiber-47 300 Stucco Assembly 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.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver El Rey Fiber-47 300 Stucco Assembly products in original packaging with manufacturer's identification.
- B. Storage: Store El Rey Fiber-47 300 Stucco Assembly products in dry location, off the ground, protected from moisture conditions harmful to product performance.

## 1.8 PROJECT / SITE CONDITIONS

- A. Substrate Temperature: Do not apply El Rey Fiber-47 300 Stucco Assembly products to substrates whose temperature are below 40°F (4°C) or contain frost or ice.
- B. Inclement Weather: Do not apply Stucco Base during inclement weather, unless appropriate protection is employed.
- C. Sunlight Exposure: Avoid, when possible, installation of the Stucco Base in direct sunlight. Application of Finishes in direct sunlight in hot weather may adversely affect aesthetics.
- D. El Rey Fiber-47 300 Stucco Assembly 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 during hot, dry weather.
- E. Prior to installation, the wall shall be inspected for surface contamination, or other defects that may adversely affect the performance of the El Rey Fiber-47 300 Stucco Assembly, and shall be free of residual moisture.

## 1.9 COORDINATION AND SCHEDULING:

- A. Coordination: Coordinate El Rey Fiber-47 300 Stucco Assembly installation with other construction operations.

## 1.10 WARRANTY

- A. Warranty: Upon request, at completion of installation, provide El Rey Standard Limited Stucco Warranty. See El Rey's warranty schedule for available El Rey Fiber-47 300 Stucco Assembly Warranties.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Manufacturer: Parex USA, Inc., 4125 E. LaPalma Ave., Suite 250, Anaheim, CA 92807
- B. Components: Obtain components of El Rey Fiber-47 300 Stucco Assembly 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**

- A. Bonding Agent
  - 1. Parex USA Adacryl Bonder & Admix: 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.
- B. El Rey Fiber-47 Scratch & Brown
  - 1. El Rey Fiber-47 Scratch & Brown Concentrate: A factory blended portland cement, fibers, hydrated lime and proprietary ingredients, cement scratch and brown coat mixed in the field with sand, conforming to ASTM C926.
  - OR -
  - 1. El Rey Fiber-47 Scratch & Brown Sanded: A factory blend of portland cement, lime, fibers, proprietary additives and sand, scratch and brown coat, mixed in the field with water, conforming to ASTM C926.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE PRIMER FOR ENHANCED PERFORMANCE AND WARRANTY.

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- C. Perma-Flex Colored Primer: 100% acrylic based coating to prepare surfaces for El Rey finishes.

EDITOR NOTE: MODIFY BELOW TO SUIT REQUIREMENTS. CHOOSE ONE FINISH TYPE CHOOSE EL REY ELASTOMERIC OR ACRYLIC FINISH FOR DIFFERENT LEVELS OF ENHANCED WARRANTY.

- D. El Rey Finish:
  - 1. El Rey Perma-Flex Elastomeric Finish: Factory blended, 100 % acrylic polymer based elastomeric textured finish, integrally colored.
    - a. Finish texture and color as selected by Project Designer
  - OR-
  - 1. El Rey Perma-Flex DPR Acrylic Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.
    - a. Finish texture and color as selected by Project Designer

### **2.3 RELATED MATERIALS AND ACCESSORIES**

- A. General: El Rey Fiber-47 300 Stucco Assembly and its related materials shall conform to ASTM C926, this specification and Product Data Sheets

EDITOR NOTE: THE SELECTION OF AN APPROPRIATE TYPE OF MATERIAL FOR 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.

- B. Lath and Accessories: Conform to ASTM C847, ASTM C933, ASTM C1032 and ASTM C1063 and Appendix
  - 1. Accessories: Manufacturer's standard steel products with G60 galvanizing unless otherwise indicated as rigid polyvinyl chloride (pvc plastic) or zinc alloy
  - 2. Weep Screeds: Foundation weep screed with minimum 3½ inch vertical attachment flange.

## **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 El Rey Fiber-47 300 Stucco.
- C. Substrate Examination: Examine prior to El Rey Fiber-47 300 Stucco Base installation as follows:
  - 1. Substrate shall be of a type approved by Parex USA.
  - 2. Concrete and Masonry must be cured a minimum of 28 days.
  - 3. Substrate shall be examined for soundness, and other harmful conditions.
  - 4. Substrate shall be free of dust, dirt, laitance, efflorescence, and other harmful contaminants.
  - 5. Substrate construction in accordance with substrate material manufacturer's specifications and
- D. Advise Contractor of discrepancies preventing installation of the El Rey Fiber-47 300 Stucco Assembly. Do not proceed with the El Rey Fiber-47 300 Stucco Assembly work until unsatisfactory conditions are corrected.

### **3.2 PREPARATION**

- A. Concrete (Cast-in-Place): Provide a surface that is slightly scarified, water absorbent, 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. Pre-moisten the surface with water just prior to placement of stucco, or apply one uniform coat of Parex USA Adacryl Bonder & Admix according to application instructions.
- B. Concrete Masonry Units: Remove projecting joint mortar so it is even with the plane of the wall. Remove surface contaminants such as efflorescence, existing paint or any other bond inhibiting material by sandblasting, waterblasting, wire brushing, chipping or other appropriate means. Pre-moisten the surface with water just prior to placement of stucco, or apply one uniform coat of Parex USA Adacryl Bonder & Admix according to application instructions.
- C. 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 El Rey Fiber-47 300 Stucco Assembly Product Data Sheets.
- B. Admix – Parex USA Adacryl Bonder & Admix
  - 1. Mix up to 1 gallon per 90 pound bag of El Rey Fiber-47 Scratch & Brown Concentrate and up to 1 quart per 80 pound bag of El Rey Fiber-47 Scratch & Brown 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: El Rey Fiber-47 300 Stucco Assembly and its related materials shall conform to ASTM C926, this specification and Product Data Sheets.
- B. Parex USA Adacryl Bonder & Admix for application to concrete masonry construction:
  - 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 Base coat should be applied after Parex USA Adacryl Bonder & Admix becomes tacky.
- C. El Rey Fiber-47 300 Stucco Base:
  - 1. Apply base coat to a minimum thickness of 3/8 in, using sufficient trowel pressure to key stucco into concrete masonry surface and to a uniform thickness. Refer to ASTM C926 for allowable thicknesses direct to concrete and masonry.
  - 2. Rod surface to true plane.
  - 3. Trowel to smooth and uniform surface to receive finish coat
  - 4. Moist cure stucco base with clean, cool, potable water for at least 48 hours and allow to dry for one day.

D. Primer and Finish:

1. After Moist curing, allow the El ReyStucco Base to air dry.
  - a. Minimum of 3 additional days if applying a Primer
- OR-
- a. Minimum of 5 additional days before application of an Acrylic or Elastomeric based Finish Coat
2. Remove surface contaminants such as dust or dirt without damaging the substrate.
3. 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.
4. 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.
5. 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.
6. Protect Finish Coats from inclement weather until completely dry.

**3.4 CLEAN-UP**

- D. Removal: Remove and legally dispose of El Rey Fiber-47 300 Stucco Assembly component debris material from job site.

**1.5 PROTECTION**

- E. Provide protection of installed materials from water infiltration into or behind them.
- F. Provide protection of installed stucco from dust, dirt, precipitation, and freezing during installation.
- G. Provide protection of installed finish from dust, dirt, precipitation, freezing and continuous high humidity until fully cured and dry.
- H. 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 Project 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.

**NOTES:**





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[www.elrey.com](http://www.elrey.com)

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