



WeatherSeal Spray & Roll-On Specification

CSI SECTION 07 27 26

CSI SECTION 07 27 26 - Trowel Applied Waterproof Membrane & Air Barrier

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Manufacturer's requirements for the proper design, use, and installation of the Installation of Parex USA WeatherSeal Spray & Roll-On.

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 62 00 - Sheet Metal Flashing and Trim
- E. Section 07 90 00 - Joint Protection
- F. Section 08 50 00 - Windows
- G. Section 09 21 16 - Gypsum Board Assemblies

1.3 REFERENCES

- A. ASTM B117 - Test Method for Salt Spray (Fog) Testing
- B. ASTM C1135 - Test Method for Determining Tensile Adhesion Properties of Structural Sealants
- C. ASTM D522 - Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
- D. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity
- E. ASTM D4541 - Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
- F. ASTM E72 - Test Methods of Conducting Strength Tests of Panels for Building Construction
- G. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials
- H. ASTM E96 - Test Method for Water Vapor Transmission of Materials
- I. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- J. ASTM E331 - Test Method for Water Penetration by Uniform Static Air Pressure Difference
- K. ASTM E695 - Method for Measuring Relative Resistance to Impact Loading
- L. ASTM E2134 - Standard Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)
- M. ASTM E2178 - Standard Test Method for Air Permeance of Building Materials
- N. ASTM E2485 - Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings
- O. ASTM G155 and G153 - Accelerated Weathering for Exposure of Nonmetallic Materials

1.4 SYSTEM DESCRIPTION

- A. Description of Parex USA Weatherseal Spray & Roll-On:
 - 1. 100% acrylic based trowelable water-proof membrane and air barrier. Designed for use as water resistive barrier and air barrier behind EIFS and other claddings. This product is installed over glass mat gypsum sheathing, cement board sheathing, CDX plywood, OSB*, concrete or CMU.
*The system is qualified for application to OSB (oriented strand board) sheathing only in areas shown in the Parex USA Acceptable Substrates and areas of use Technical Bulletin.

B. Functional Criteria:

1. General:

- a. Flashing: Flashing shall be continuous and watertight. Flashing shall be designed and installed to prevent water infiltration behind the EIFS. Refer to Division 07 Flashing Section for specified flashing materials.
- b. The configuration of the water resistive barrier, drainage plane and flashing and Parex USA materials, must allow for the egress of incidental moisture.

2. Performance Requirements

- a. System to meet the performance and testing requirements of the International Code Council Acceptance Criteria AC 212 and ASTM E2570.

Parex USA WeatherSeal	Method	ICC and ASTM E2570 Criteria	Results
Accelerated Weathering	AC 212	25 Cycles followed by Hydrostatic Pressure Test: No water penetration on the plane of the exterior facing side of the substrate.	Pass: no water penetration
Air Infiltration	ASTM E2178	Calculated flow Rate at 75 Pa (1.57 lb/ft ² , 0.3 in H ₂ O) = < 0.02 L/m ² *s (< 0.004 cfm/ft ²)	< .00001 L/m ² *s (0.00001 cfm/ft ²) at 75 Pa (1.57 lb/ft ² , 0.3 in H ₂ O)
Air Leakage	ASTM E283	No Criteria	< 0.004 cfm/ft ²
Freeze-Thaw Resistance	ASTM E 2485	10 Cycles	Pass – No Deleterious Effects
Hydrostatic Pressure Test	AATCC 127 (Water Column)	Resist 21.6 in (55 cm) water for 5 hours before and after aging	Pass: no water penetration
Elongation	ASTM D412	No Criteria	360%
Flexibility	ASTM D522	No Criteria	No Cracking at 1/8" (3 mm)
Nail Seal ability, Head of Water	ASTM D1970	No Criteria	Pass 5 inches of water
Racking	ASTM E72	Deflection at 1/8 in (3.2 mm)	Pass -No cracking at field, joints or flashing connection
Restrained Environmental	ICC ES AC 212 / ASTM E2570	5 Cycles of wetting and drying	Pass -No cracking at field, joints or flashing connection
Structural Loading	ASTM E1233 Procedure A	10 Cycles @ 80% design load	Pass -No cracking at field, joints or flashing connection
Surface Burning Characteristics	ASTM E84	ICC and ASTM E2568 Flame Spread <25 Smoke Developed <450	Flame Spread =0 Smoke Developed =0
Tensile Bond Strength	ASTM E 2134/ ASTM C 297	Minimum 15 psi (104 kPa)	Pass all listed substrates and flashing materials
Water Resistance	ASTM D 2247	14 Days	Pass – No Deleterious Effects.
Water Penetration	ASTM E331	2.86 psf (137 Pa) for 15 minutes	Pass 25.4 psf (1216 Pa) for 165 minutes
Water Penetration	ASTM E331	Tested after Structural Loading, Racking and Restrained Environmental Cycling at 2.86 psf (137 Pa) for 15 minutes	No Water Penetration
Water vapor transmission	ASTM E96 Procedure B	Vapor Permeable	7 perms
Weathering	ICC ES AC 212 / ASTM E2570	210 hours of UV Exposure, 25 cycles of accelerated weatherin, 21.6 in (549 mm) water column for 5 hours	Pass
Wind Driven Rain	F.S. TT-C-555B	No Criteria	Pass
VOC	EPA Reference Test Method 24	US EPA, South Coast AQMD and Greenseal Standard	10 g/L
Regional Harvest		LEED MRc 5.1	100% at all facilities

1.5 SUBMITTALS

- A. General: Submit Samples, Evaluation Reports and Certificates in accordance with Division 01 General Requirements Submittal Section.

1.6 QUALITY ASSURANCE

- A. Qualifications:
 - 1. All materials shall be manufactured or sold by Parex USA and shall be purchased from Parex USA or its authorized distributor.
 - 2. Applicator:
 - a. Shall have attended a Parex USA Educational Seminar.
 - b. Shall possess a current certificate of education.
 - c. Shall be experienced and competent in installation of plaster-like materials.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver Parex USA Weatherseal in original packaging with manufacturer's identification.
- B. Storage: Store materials supplied by Parex USA in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40°F (4°C) and below 110°F (43°C) in accordance with manufacturer's instructions.

1.8 PROJECT / SITE CONDITIONS

- A. Installation Ambient Air Temperature: Minimum of 40 °F (4 °C) and rising, and remain so for 24 hours thereafter.
- B. Substrate Temperature: Do not apply Parex USA materials to substrates whose temperature are below 40 °F (4 °C) or contain frost or ice.
- C. Inclement Weather: Do not apply Parex USA materials during inclement weather, unless appropriate protection is employed.
- D. Parex USA 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 base coat 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 Parex USA materials and shall be free of residual moisture.

1.9 COORDINATION AND SCHEDULING:

- A. Coordination: Coordinate Parex USA Weatherseal installation with other construction operations.

1.10 WARRANTY

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

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Parex USA, Inc., 4125 E. LaPalma Ave., Suite 250, Anaheim, CA 92807
- B. Components: Obtain components 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. Water-Resistive Barrier Coating:
 - 1. Parex USA Weatherseal Spray & Roll-On: A non-cementitious, 100% acrylic trowelable air/weather barrier.
 - 2. Parex 396 Sheathing Tape: Non-woven synthetic fiber tape to reinforce Weatherseal Spray & Roll-On at sheathing board joints, into rough openings and other terminations into dissimilar materials available in 4 in, 6 in and 9 in.
 - 3. Flashing Membrane: Self sealing, Polyester faced, rubberized asphalt membrane, 30 mils (0.76 mm) thick.

2.3 RELATED MATERIALS AND ACCESSORIES

- A. Substrate Materials:
 - 1. Glass mat gypsum sheathing conforming to ASTM C1177.
 - 2. Cement Fiber Sheathing conforming to ASTM C1186
 - 3. Gypsum Sheathing: Minimum 1/2" (13 mm) thick, core-treated, weather-resistant, exterior gypsum sheathing complying with ASTM C79.
 - 4. Plywood: Minimum 7/16" (8 mm) thick exterior grade or PS 1, Exposure 1, minimum 7/16" thick, C veneer facing out, panels gapped 1/8 " at all edges.
 - 5. Oriented Strand Board (OSB): 7/16" - 1/2" 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.
 - 6. Concrete Masonry Units (CMU): Non-painted (uncoated).
 - 7. Concrete (poured or pre-cast).
 - 8. Other Approved by Parex USA in writing prior to the project.
- B. Flashing: Refer to Division 07 Flashing Section for flashing materials.

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.
- C. Substrate Examination: Examine prior to Parex USA Weatherseal installation as follows:
 - 1. Substrate shall be of a type approved by Parex USA . Plywood and OSB substrates shall be gapped 1/8 in (3.2 mm) at all edges. Plywood and OSB substrates cut edges (non-factory edges) must be sealed with a Parex USA water-resistive coating.
 - 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.
 - 5. Maximum deflection of the substrate shall be determine by the requirements of the exterior cladding.
- D. Flashing: Flashing should be installed prior to the Parex USA Weatherseal and the Parex USA Weatherseal incorporated with the flashing to create positive draiange.
- E. Advise Contractor of discrepancies preventing installation of the Parex USA Weatherseal. Do not proceed with the work until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. Protection: Protect surrounding material surfaces and areas during installation of system.
- B. Clean surfaces thoroughly prior to installation.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 MIXING

- A. Mix Parex USA proprietary products in accordance with manufacturer's instructions.

3.4 APPLICATION

- A. General: Installation shall conform to this specification and Parex written instructions.
 - 1. Flash all rough openings with Parex USA Weatherseal Spray & Roll-On embedded with 396 Sheathing Tape or Polyester backed Peel and Stick Flashing Membrane.
 - 2. Treat all sheathing joints with Weatherseal Spray & Roll-On water-resistive barrier and embed 396 Sheathing Tape.
 - 3. Apply Weatherseal Spray & Roll-On Water-resistive barrier to the surface of the substrate (Minimum 2 coats on plywood, OSB, concrete and masonry).

4. Ensure that the Weatherseal Spray & Roll-On laps onto all tracks and flashing to allow for any water to be drained into the tracks/flashing.

3.5 CLEAN-UP

- A. Removal: Remove and legally dispose of Parex USA component debris material from job site.
- B. Clean surfaces and work area of foreign materials resulting from Parex USA installations.

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 cured and 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 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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