



ICC-ES Evaluation Report

Reissued January 2023

ESR-2045

This report is subject to renewal January 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-Resistive Barriers/Weather Barriers

REPORT HOLDER:

PAREX USA, INC.

EVALUATION SUBJECT:

PAREX USA WEATHERSEAL SPRAY & ROLL-ON AND PAREX USA WEATHERSEAL TROWEL-ON

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)

Properties evaluated:

- Surface-burning characteristics
- Physical properties

2.0 USES

Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On are used as an alternative to the water-resistive barrier specified in the IBC and IRC when installed over sheathing or substrate on exterior walls in accordance with Section 3.3. These products are for use on any construction type under the IBC and Types I, II, III, and IV construction when installed in accordance with Section 4.5. Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On may also be used on construction permitted under the IRC. Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On comply with ASTM E2570 as indicated in 2018 IBC Section 1407.4.1.1 (2015, 2012 and 2009 IBC Section 1408.4.1.1) and the 2018 and 2015 IRC Section R703.9.2 (Sections R703.9 and R703.9.2.1 of the 2012 and 2009 IRC).

3.0 DESCRIPTION

3.1 General:

Weatherseal Spray & Roll-On and Weatherseal Trowel-On are 100-percent-acrylic water-resistive coatings that are

packaged in 5-gallon (18.9 L) pails. The products have a shelf life of two years when stored unopened in a cool, dry location. The barriers have a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84. The water-resistive barrier coatings require a slip sheet when used behind portland cement plaster or mortar setting beds.

3.2 Water Vapor Transmission (WVT):

The WVT water method value of the barriers [in compliance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38)] is at least 35.7 grams/m² per 24 hours.

3.3 Exterior Sheathing or Substrate:

The use of the barriers is limited to the following:

- Exterior grade gypsum sheathing complying with ASTM C79 or ASTM C1396.
- Glass mat gypsum substrate complying with ASTM C1177.
- Cement board complying with ASTM C1325 and having a minimum 1/2-inch (12.7 mm) thickness.
- Plywood, Exposure 1, 4-ply, minimum Grade C-D, complying with U.S. DOC PS-1 and having a minimum nominal 1/2-inch (12.7 mm) thickness.
- Oriented strand board (OSB), Exposure 1, complying with U.S. DOC PS-2.
- Concrete and masonry complying with the applicable code.

3.4 Flashing:

Flashing material evaluated for use with the barriers consist of No. 26 gage uncoated, galvanized, steel sheet metal; uncoated aluminum; PVC; polyester-faced peel-and-stick; stainless steel; color-coated aluminum; galvanized metal and copper.

3.5 Reinforcing Fabric:

3.5.1 Parex USA Weatherseal Trowel-On: The reinforcing fabric (see [ESR-1935](#)) consists of glass-fiber mesh that has been treated for alkali resistance that complies with ASTM D4029. The minimum 4.5-ounce fabric is a balanced, open-weave, glass-fiber fabric.

3.5.2 Weatherseal Spray & Roll-On and Weatherseal

Trowel-On: The reinforcing fabric is nonwoven 396 Sheathing Joint Tape.

4.0 INSTALLATION

4.1 General:

Installation of the barriers must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

4.2 Exterior Sheathing or Substrate Preparation:

The barriers are installed on the exterior side of vertical exterior walls over exterior sheathing or substrates in indicated in Section 3.3. Surfaces must be free of all bond-inhibiting materials, including dirt, oil and other foreign matter. The barriers may be applied only when the surface and ambient temperatures are 40°F (4°C) and rising during the application and drying period. Working time will decrease as surface and ambient temperatures increase. The substrate to be coated must be continuous. Sheathing must be without surface defects within the field of the board exceeding what is allowed by the sheathing manufacturer.

The barriers must not be installed on damp surfaces, below-grade surfaces, or on surfaces subject to water immersion. Damaged sheathing or other material must be removed and replaced. Sheathing must be installed as required by the applicable code and be flat within 1/4 inch (6.4 mm). The water-resistive barrier coatings must be covered with an exterior wall covering complying with the requirements of the applicable code or a current evaluation report. Windows, doors, and penetrations must be flashed with materials as described in Section 3.4 in accordance with the applicable code.

4.3 Coating Application:

4.3.1 Parex USA Weatherseal Trowel-On: Minimum 4-inch-wide (102 mm) strips of reinforcing fabric are applied to all sheathing joints, inside and outside corners, open holes up to 1 inch (25.4 mm) across, back flanges of flashing and track and all exposed edges at termination. A minimum 4-inch (102 mm) width of the coating is applied to the joint, and the reinforcing fabric is embedded so that the color of the mesh is not visible. The coating is applied by trowel, roller or sprayer to the entire surface of the substrate and flashing, as applicable, to a minimum wet thickness of 1/16 inch (1.6 mm), resulting in a dry thickness of 1/24 inch (1.1 mm).

4.3.2 Weatherseal Spray & Roll-On and Weatherseal

Trowel-On: The coating is applied over gaps in sheathing up to 1/4 in. (6 mm) wide; open holes up to 1 inch (25 mm) in diameter; back flanges of flashings and track and centered over sheathing joints, at a 6-inch (150 mm), width with a roller, brush or spray equipment. Sprayed applications require back-rolling. Use a 1 1/4-inch (32 mm) or 1 3/8-inch (35 mm) nap roller, designed for applying latex paint.

Center the 396 Sheathing Joint Tape over the gaps, holes, sheathing joints and flashing flanges in the wet base layer of coating. Run a trowel or taping knife over the tape to fully embed it into the base layer and force the wet coating up into the tape. Do not let the coating skin over before installing the tape. If the coating does skin over before embedding the tape, scrape off the coating and start over or let it fully dry and re-apply. A top layer of the coating must be applied over the entire outer sheathing surface, at a rate of not more than 100 sq. ft. per gal. (2.4 sq. m. per L), after the tape is properly embedded into the base layer of the coating.

4.4 Curing and Drying:

The barriers must be allowed to cure for a minimum of 12 hours before application of wall covering. Curing time varies depending on temperature/humidity and surface conditions. Surfaces must be protected from rain and freezing until completely dry.

4.5 Construction Types I, II, III and IV: Parex USA Weatherseal Spray & Roll-On or Parex USA Weatherseal Trowel-On applied in accordance with this evaluation report to gypsum-based sheathing can be used on any construction type. For installation under the 2018 IBC on exterior walls of Types I, II, III, and IV construction exceeding 40 feet (12.2 m) in height above grade, installation of these products applied to gypsum-based sheathing shall be in accordance with assemblies described in a current ICC-ES evaluation report for this use, or in compliance with Exception 1 of Section 1402.5 of the 2018 IBC. For installation under the 2015 IBC on exterior walls of Types I, II, III and IV construction exceeding 40 feet (12.2 m) in height above grade, installation of these products applied to gypsum-based sheathing shall be in accordance with assemblies described in a current ICC-ES evaluation report for this use, or in compliance with Exception 1 of Section 1403.5 of the 2015 IBC. For installation under the 2012 IBC on exterior walls of Types I, II, III and IV construction exceeding 40 feet (12.2 m) in height above grade, installation of these products applied to gypsum-based sheathing shall be in accordance with assemblies described in a current ICC-ES evaluation report for this use.

5.0 CONDITIONS OF USE

Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On water-resistive coating described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2** Installation must be by applicators qualified by the manufacturer.
- 5.3** For recognition under the IBC and IRC, special inspection is required at the jobsite in accordance with 2018 and 2015 IBC Sections 1704.2 and 1705.16.1 (2012 IBC Sections 1704.2 and 1705.15.1 and 2009 IBC Sections 1704.1 and 1704.14.1). Duties of the inspector include verifying field preparation of materials, expiration dates, installation of components, curing of components, applied wet-film and dry-film thicknesses and interface of coating material with flashing.
- 5.4** The barriers are limited to installation on vertical walls.
- 5.5** The barriers must be covered with an exterior wall covering complying with the applicable code or a current evaluation report.
- 5.6** The barriers must not be used for repairing cracks subject to movement, joints or cracks wider than 1/8 inch (3.2 mm).

6.0 EVIDENCE SUBMITTED

- 6.1** Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Coatings Used as Water-resistive Barriers over Exterior Sheathing (AC212), dated February 2015 (editorially revised April 2018).

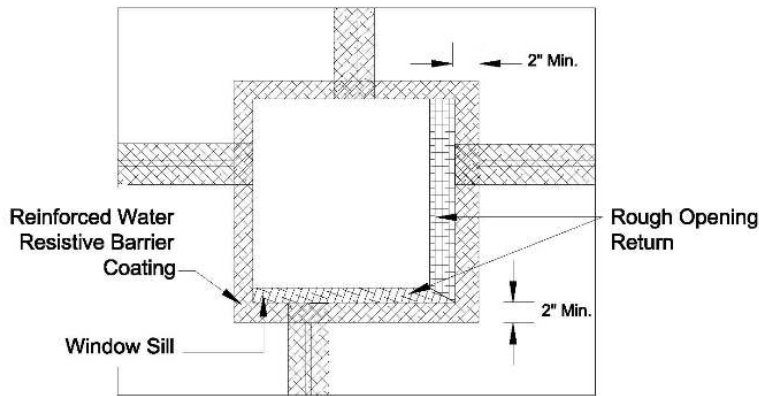
6.2 Report containing results of testing in accordance with ASTM E84.

7.0 IDENTIFICATION

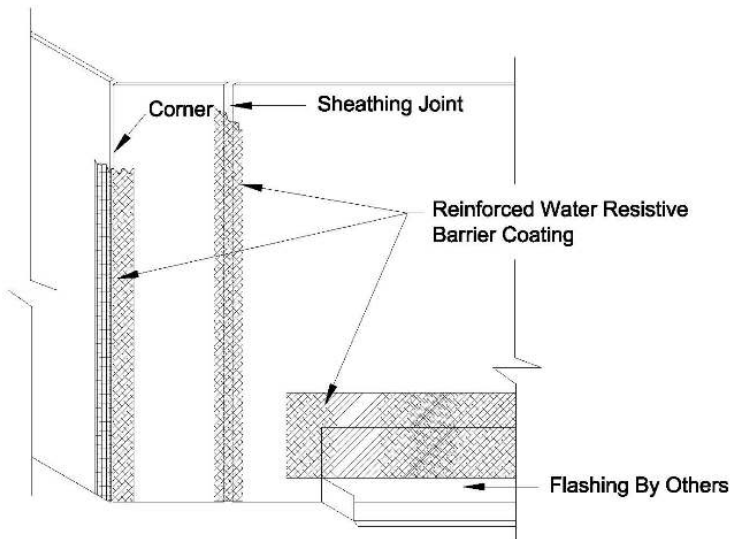
7.1 Containers of the Weatherseal Spray & Roll-On and Weatherseal Trowel-On are identified by a label bearing the manufacturer's name (Parex USA) and address; the product name; identification of components; the batch number; quantity of material in packaged mix; storage instructions and shelf life; the expiration date; and the evaluation report number (ESR-2045).

7.2 The report holder's contact information is the following:

PAREX USA, INC.
2150 EASTRIDGE AVENUE
RIVERSIDE, CALIFORNIA 92507
(714) 333-3269
www.parexlahabra.com



Typical Rough Opening



Typical Corner, Sheathing Joint, Termination at Flashing

FIGURE 1

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
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EVALUATION SUBJECT:

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1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On, described in ICC-ES evaluation report ESR-2045, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 *California Building Code*® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code*® (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On, described in Sections 2.0 through 7.0 of the evaluation report ESR-2045, comply with CBC Chapters 7 and 14, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 7, 14 and 17, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On, described in Sections 2.0 through 7.0 of the evaluation report ESR-2045, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued January 2023.

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Applicable code editions:

- 2020 *Florida Building Code—Building*
- 2020 *Florida Building Code—Residential*

2.0 CONCLUSIONS

Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On, as described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-2045, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*. The design requirements shall be determined in accordance with the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2045 for the 2018 *International Building Code*® (IBC) meet the requirements of the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable, with the following conditions:

1. Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On comply with ASTM E2570 as indicated in *Florida Building Code-Building* Section 1408.4.1.1.
2. For installation on exterior walls of Types I, II, III, and IV construction exceeding 40 feet (12.2 m) in height above grade, installation of these products applied to gypsum-based sheathing shall be in accordance with assemblies described in a current ICC-ES evaluation report for this use, or in compliance with Exception 1 of Section 1403.5 of the *Florida Building Code-Building*.

Use of Parex USA Weatherseal Spray & Roll-On and Parex USA Weatherseal Trowel-On for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code* has not been evaluated, and is outside the scope of this evaluation report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

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