



## **Weather Resistive Barriers**

Prime Source produces and distributes three types of durable high density woven weather resistive barriers. When combined with Grip-Rite Self-Adhered Flashings, highly weather resistant barriers are created which are proven to resist air and water leakage.

- Grip-Rite House-Wrap ICC-ES ESR-2248
- Grip-Rite Commercial Grade ICC-ES EST-2252
- Grip-Rite House-Wrap – E ICC-ES ESR 2496

### **Open Stud Framing**

Grip-Rite House-Wrap weather resistive barrier and Grip-Rite Commercial Grade House-Wraps may be installed over open stud framing provided the following minimum criteria are met:

- Stud framing spacing does not exceed 24" o.c.;
- The structure is no higher than three stories or 33 feet;
- Window and door framing has a minimum of 3" of solid framing;
- Wind speeds, as determined by local Code used for calculated wind loading, do not exceed 110 mph\*;
- The exterior cladding system fully covers the weather resistive barrier; and
- Ventilation of the exterior wall cavity does not directly load the unsupported weather resistive barrier;
- The structure is not situated within a "Special Wind Region" as defined in Chapter 16 of the International Building Code.

### **Caution**

Grip-Rite House-Wrap weather resistive barriers installed over open framing shall not be left exposed for extended periods. Exposed weather barrier is subject to damage from winds and ongoing construction activities that may tear the weather barrier at points of attachment

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\* Wind speeds shall be interpolated from the ICC International Building Code, Chapter 16 Ultimate Design Wind Speeds

resulting in leakage. Installed weather barrier shall be fully covered with cladding materials the same day.

Grip-Rite House-Wrap weather resistive barriers shall never be washed or exposed to surfactants such as soaps or detergents. Such exposure will reduce water resistance.

### **Design Intent**

A weather resistive barrier is one of multiple components which, when properly integrated into the exterior cladding assembly, will form an effective secondary water barrier, stopping exterior water from reaching the frame and directing any incidental water to the exterior through flashings and openings at the base of the exterior siding system. The weather resistive barrier is also designed to allow the passage of water vapor from the exterior wall cavity to the building exterior. This will eliminate any accumulated water vapor within the stud cavity which may have migrated from the building interior.

Design assistance should be sought when product use is contemplated in high wind areas; on structures with high interior humidity; and on buildings with any uncommon interior use.

Grip-Rite House-Wrap weather resistive barriers are not intended for use in open rain screen systems where the design includes pressure equalization created by breaks in the exterior siding at each floorline.

Open framed construction is suitable for the installation of an air barrier providing the overlaps penetrations and terminations can be adequately sealed. (See Air Barrier Section Below)

### **Code Requirements**

Refer to local building Codes for acceptance of open stud frame construction. Weather resistive barriers provide no lateral restraint. The framing design should be reviewed and approved by the engineer of record.

Refer to local codes and manufacturer's requirements for stucco installations. A layer of Grade 'D' paper may be required over the Grip-Rite House-Wrap weather resistive barrier. (See Exterior Siding Considerations below).

### **Sequencing**

The Grip-Rite House-Wrap weather resistive barrier should be installed BEFORE the windows and doors have been installed. Roof sheathing should be installed and roof top water diverters should be in place to ensure water does not flow behind the newly installed Grip-Rite House-Wrap weather resistive barrier. Any other water flow that impacts the newly installed material should be diverted or eliminated prior to installation of the Grip-Rite House-Wrap weather resistive barrier.

## **Products**

To properly install the Grip-Rite House-Wrap weather resistive barrier, the following materials are required:

- Grip-Rite House-Wrap Weather Resistive Barrier;
- Grip-Rite Plastic Head Cap Nails or #7 diameter screws with plastic washers;
- Grip-Rite Window Flashings and Door Protector;
- Grip-Rite Window and Door Protector Primer;
- Grip-Rite House-Wrap Tape.

See General Installation Instructions within the Product Data Sheet for each product.

## **Installation**

Install in compliance with Grip-Rite General Installation Recommendations published in the Product Data Sheet and the installation recommendations below:

1. As with all weather resistive barriers, start at the sill plate and install all materials in a shingle fashion to properly shed water.
2. Starting at a corner, align the first course overlapping the sill plate not less than two-inches. After properly aligning the roll for a plumb and level installation, roll out sufficient material to confirm alignment. Begin attachment on the corner framing, at the adjacent plane, leaving enough excess material to attach the housewrap to the first stud on the adjacent plane. Starting just above the sill plate, pull the housewrap tight around the corner framing and fasten to the corner framing and at each stud, fastening 12" o.c. with plastic cap nails or #7 fasteners and plastic washers.
3. Seal the housewrap to the sill plate with Grip-Rite sealant butyl, caulk tape, or one part polyurethane sealant and nail the housewrap to the sill plate 6" o.c.
4. Hold fasteners approximately 9" away from window and door head rough openings to allow for subsequent flashing installations. (See Flashing Sequence)
5. Unroll housewrap over window and door rough openings without cutting or puncturing the housewrap.
6. Where housewrap has been torn or punctured, immediately mark the area for easy identification and subsequent repair with Grip-Rite Tape. Where tears or punctures are large repair with Tape and House-Wrap patch as shown in General Installation Instructions.
7. Secure to the stud framing, not the rough opening framing of windows and doors, where possible.
8. Overlap each roll a minimum of 6" in shingle fashion. At corners, extend the housewrap around the corner and nail on the adjacent plane to the corner framing and first stud. At vertical joints overlap a minimum of 12".

9. At penetrations, carefully 'X' cut the housewrap only enough to allow the housewrap to slide over the penetration with a 'snug' fit. Avoid larger cuts that would require extensive taping to create a seal.
10. Penetrations shall be sealed with the use of Grip-Rite Tape sealing the 'X' cuts and forming the transition around the penetration. Wherever possible, shingle components to form a water shedding layer. Follow Installation Instruction provided with Grip-Rite Tape.
11. All vertical seams shall be taped with Grip-Rite Tape. Press and roll the tape into place to create a complete seal at the joint. Where possible seal overlaps where there is a solid substrate.
12. At windows and door penetrations, 'X' cut the opening, terminating the cuts at all four corners. Fold the housewrap into the opening. Tape the cuts in compliance with the detail shown in Figure XX below. Cut the housewrap at the window head at a 45° angle to insert a head flashing. Overlap the vertical flange of the head flashing a minimum of 4". Tape the cuts and overlap with Grip-Rite Tape as shown in the detail shown in Figure XX below.
13. At the wall to soffit transitions, seal the housewrap to a continuous framing member with Grip-Rite sealant, butyl caulk tape or Grip-Rite Tape to form a continuous seal. Where sealant or butyl caulk tape has been installed nail through the sealing material 6" o.c. If there is no continuous framing member, install a minimum 26 gauge galvanized angle in compliance with the detail shown in figure XX below to form a continuous seal.

### **Grip-Rite Window Flashing Sequence**

### **Exterior Siding Considerations**

#### **Stucco**

According to the Current Code requirements a weather resistive barrier must provide the equivalent of two layers of grade "D" paper. When using Grip-Rite House-Wrap weather resistive barrier, and additional layer of Grade D paper, or equivalent, shall be installed over the Grip-Rite House-Wrap weather resistive barrier as an additional layer. The Grade "D" paper shall be approved by the manufacturer for open stud applications. Alternatively a Grade "D" paper incorporated into the lath may be installed as the second layer. The Grip-Rite House-Wrap weather resistive barrier shall be integrated at the base wall with a weep screed. The weep screed should be fully supported at the sill plate. The weather resistive barrier shall be terminated on top of the weep screed flange. Lath shall be installed over the intervening layer in compliance with local code and ASTM C1063 "*Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster.*"

### **Brick**

As required by local Code, and recommended by the Brick Industry Association, a minimum of a one-inch air space shall separate the brick from the Grip-Rite House-Wrap weather resistive barrier in wood frame construction. For steel framing, the cavity shall be a minimum of two-inches. The air space shall be vented with weeps (tubes or cells) at the bottom of the wall and brick vents at the upper sections of the wall. All window and door openings, wall penetrations and brick tie penetrations shall be sealed with Grip-Rite Tape or Flashings.

### **Stone Veneer**

The Code requires two layers of weather resistive barrier behind stone veneer when installed over wood frame construction. The second layer may be a second layer of Grip-Rite House-Wrap weather resistive barrier or a layer of Grade "D" paper.

### **Wood Siding**

Grip-Rite House-Wrap weather resistive barrier shall be installed in general compliance with the siding manufacturer's installation instructions, industry standards and applicable local building codes. Wood siding shall be primed on all six sides prior to installation. The following shall also be considered for Wood Siding applications:

### **Fiber Cement Siding**

Grip-Rite House-Wrap weather resistive barrier shall be installed in general compliance with fiber cement manufacturer's installation instructions, industry standards and applicable local codes. In high wind areas, it is recommended by FEMA that fiber cement siding be installed over wood sheathing. If an area is designated by local Code to be a "high wind area" do not use Grip-Rite House-Wrap weather resistive barrier over open stud framing in conjunction with Fiber Cement Siding.

### **Vinyl Siding**

Vinyl siding is installed directly over Grip-Rite House-Wrap weather resistive barriers and shall be installed in general compliance with manufacturer's installations instructions, industry standards and applicable codes, including ASTM D 4756 Standard *Practice for Installation of Rigid Poly Vinyl Chloride Siding and Soffit* and the installation instructions published by the Vinyl Siding Institute. In high wind areas, it is recommended by FEMA that Vinyl Siding be installed over wood sheathing. If an area is designated by local Code to be a "high wind area" do not use Grip-Rite House-Wrap weather resistive barrier over open stud framing in conjunction with Vinyl Siding.

## **Air Barriers**

Grip-Rite House-Wrap weather resistive barrier will, in conjunction with Grip-Rite tapes and flashings, form an air barrier in compliance with the International Energy Code and some local building codes. To form an air barrier, all joints and transitions must be sealed with 3" Grip-Rite Tape. The sill must be sealed to the sill plate and all penetrations must be overlapped and sealed in compliance with Grip-Rite installation recommendations and details. The wall to soffit or roof to wall transition must be sealed to a continuous framing member or a flashing in compliance with Grip-Rite published details.

The Air Barrier Association of America (ABAA) publishes information defining the elements of and application of air barriers. Go to [http://www.airbarrier.org/resistive/specifications\\_e.php](http://www.airbarrier.org/resistive/specifications_e.php)

The Air Barrier Association provides the following guide:

1. The Air Barrier System shall have the following characteristics:
  - a. It must be continuous, with all joints sealed.
  - b. It must be structurally supported to withstand positive and negative air pressures applied to the building enclosures.
  - c. Connection shall be made between:
    - 1) Foundation and walls
    - 2) Walls and windows and/or doors.
    - 3) Different wall systems.
    - 4) Wall and roof.
    - 5) Wall and roof over unconditioned space.
    - 6) Walls, floor and roof across construction, control and expansion joints.
    - 7) Walls, floors and roof to utility, pipe and duct penetrations.In addition:
    - 8) Balcony decks and decks over living spaces.
    - 9) Soffits at cantilevered floors.
2. Air Barrier Penetrations: All penetrations of the air barrier and paths of air infiltration/exfiltration shall be sealed.

Where Grip-Rite House-Wrap weather resistive barrier extends over step flashings, the housewrap shall be sealed to the step flashings with Grip-Rite sealant or butyl caulk tape. Note the housewrap should be held above the roofing a minimum of 2" in compliance with local Code.

Finished installations may be tested to confirm compliance with ASTM E 779. Contact Prime Source Technical Services to assist in locating qualified testing agencies.

Grip-Rite House-Wrap weather resistive barriers have been tested for air leakage in compliance with ASTM E2357 and ASTM E 2178.

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# HOUSE-WRAP

## BARRERA ENVOLVENTE PARA CASAS

### White Translucent

- ✓ Air Filtration Barrier
- ✓ Moisture Protection Barrier
- ✓ Weather-Resistive Barrier
- ✓ U.V. Treated

### Blanca translúcida

- ✓ Barrera contra la filtración de aire
- ✓ Barrera de protección contra la humedad
- ✓ Barrera resistente a la intemperie
- ✓ Tratamiento U.V.

ICC-ES ESR-2248

### Grip-Rite® House-Wrap Installation Instructions

First and foremost, comply with all local building codes and permitted plans. Stage the project with scaffolding, pump jacks or other safe staging means that comply with state and local safety regulations.

Grip-Rite House-Wrap shall be installed over sheathed exterior walls only. Carefully inspect the substrate to ensure it is suitable for covering. The sheathing should be dry and properly secured to the framing. If the walls are insulated from the exterior, ensure the insulation is adequately secured to the walls in compliance with the insulation manufacturer's installation instructions.

Exterior wall penetrations, including windows, vents, hose bibs, electrical boxes and knife plates, shall be flashed in compliance with local building codes and manufacturer's published installation instructions. Flashing materials shall comply with ICC Acceptance Criteria. Flashings and Grip-Rite House-Wrap shall be fully integrated to shed water. To form an air barrier, all joints and transitions must be fully sealed with an approved tape.

Grip-Rite House-Wrap shall be secured to the substrate with 1" plastic headed cap nails for wood framing and minimum #7 diameter screws with plastic washers for steel framing. Grip-Rite fasteners are recommended for this application. Fasteners shall adequately penetrate the framing into the studs for a secure connection. The purpose of the attachment is preliminary attachment only. Full attachment is achieved with the cladding application.

Where battens are installed for rain screen applications, the House-Wrap may be secured with the battens at each stud.

The House-Wrap shall be installed with the printed side out. Apply horizontally at the base of the wall, overlapping the bottom of the sheathing by 1" (25mm). Overlap each successive course a minimum of 6" at the side laps and 8" at the end laps. Fasteners shall be placed every 12" – 18" o.c. on the vertical studs and 8" o.c. at the sill and top plates.

When installing over non-structural sheathing, attachment shall be to the framing members fully penetrating the sheathing and any exterior insulation. ¾" embedment into the framing is recommended.

Wrap inside and outside corners a minimum of 8" to create a double layer of House-Wrap at all corners.

If the House-Wrap is to provide temporary protection of the exterior walls, ensure the top course is fully sealed to resist water infiltration.

When the exterior cladding is stucco and the sheathing layer is wood-based, two layers of House-Wrap are required unless the lath includes a layer of Grade 'D' paper or a separate layer of Grade 'D' paper is applied over the base layer of House-Wrap. All applications shall be compliant with local building codes and industry practice.

Do not apply any surfactants or additives containing surfactants to the surface of the House-Wrap as these will negatively impact the water hold-out performance of the product.

Grip-Rite House-Wrap has been designed as a weather resistive barrier for application to exterior vertical walls. The product has not been designed, nor is it approved, for any uses resulting in foot traffic.

Grip-Rite House-Wrap is not a vapor retarder or vapor barrier. Please refer to ICC – ESR Report 2248 for additional testing or physical property information.

Where sealing of penetrations is required, use Grip-Rite House-Wrap Tape. For best results, the substrate shall be dry and the tape rolled with a silicone pressure roller. Position the tape to equally distribute the tape surface onto each attachment plane.

**WARNING:** Grip-Rite® House-Wrap may be slippery and should not be walked on. Scaffolding or Kick jacks are recommended in all applications at or above the first floor.

\*Windows and doors must be installed in accordance with manufacturers' installation procedures.

### Instrucciones para la instalación de barrera envolvente para casas Grip-Rite

Ante todo, cumpla con la normativa de construcción local y planos autorizados. Disponga el proyecto con andamios, palometas de gato u otros medios seguros para que cumplan con las regulaciones estatales y locales de seguridad.

La barrera envolvente para casas Grip-Rite se deberá instalar sobre paredes exteriores revestidas únicamente. Inspeccione cuidadosamente el sustrato para comprobar que sea adecuado para el recubrimiento. El revestimiento debe estar seco y adecuadamente asegurado al armazón. Si las paredes tienen aislante desde el exterior, compruebe que el aislante esté adecuadamente asegurado a las paredes de acuerdo con las instrucciones de instalación del fabricante del aislante.

Las aberturas de la pared exterior, incluyendo las ventanas, conductos de ventilación, grifos para manguera, cajetines de electricidad y placas de soporte, deberá protegerse con tapajuntas de acuerdo con la normativa de construcción local y con las instrucciones de instalación publicadas por el fabricante. Los materiales de tapajuntas deberán cumplir con el criterio de aceptación ICC. Los materiales de tapajuntas y la barrera envolvente para casas Grip-Rite deberán estar totalmente integrados para repeler el agua. Para formar una barrera de aire, todas las juntas y transiciones deberán estar totalmente selladas con una cinta aprobada.

La barrera envolvente para casas Grip-Rite deberá asegurarse al sustrato con clavos con capuchón plástico de 2.54 cm/1" para armazón de madera y tornillos con arandelas plásticas No. 7 mínimo para armazón de acero. Se recomiendan los sujetadores Grip-Rite para esta aplicación. Los sujetadores deberán penetrar adecuadamente el armazón en los montantes para una conexión segura. La finalidad de la fijación es únicamente preliminar. La fijación total se logra con la aplicación del recubrimiento.

Donde los listones estén colocados en aplicaciones de impermeabilización, la barrera envolvente para casas puede fijarse con los listones en cada montante.

La barrera envolvente para casas deberá instalarse con el lado impreso hacia afuera. Aplique horizontalmente en la base de la pared, superponiendo la parte inferior del revestimiento 2.54 cm/1". Superponga cada sección sucesiva un mínimo de 15.2 cm/6" en los laterales superpuestos y 20.3 cm/8" en los terminales. Los sujetadores deben aplicarse a intervalos de 12" a 18"/30.5 a 45.7 cm en montantes verticales y cada 8"/20.3 cm de centro a centro por la parte superior e inferior de las placas durmientes.

Cuando instale sobre revestimiento no estructural, la fijación deberá ser al armazón penetrando completamente el revestimiento y cualquier aislante exterior. Se recomienda una incrustación de 1.91 cm/3/4" en el armazón.

Envuelva las esquinas interiores y exteriores un mínimo de 20.3 cm/8" para crear una doble capa de barrera envolvente para casas en todas las esquinas.

Si la barrera envolvente para casas es para brindar protección temporal de las paredes exteriores, cerciórese de que la hilera superior esté totalmente sellada para resistir la infiltración del agua.

Cuando el recubrimiento exterior sea estuco y la capa de revestimiento sea a base de madera, se requieren dos capas de barrera envolvente para casas a menos que los listones incluyan una capa de papel con clasificación 'D' o que se aplique una capa aparte de papel con clasificación 'D' sobre la base de la barrera envolvente para casas. Todas las aplicaciones deberán cumplir con la normativa de construcción local y las prácticas de la industria.

No aplique surfactantes ni aditivos que contengan surfactantes a la superficie de la barrera envolvente para casas ya que impactarán negativamente el desempeño del producto en cuanto a la resistencia al agua.

La barrera envolvente para casas Grip-Rite ha sido diseñada como una barrera resistente a la intemperie para aplicación en paredes verticales exteriores. El producto no ha sido diseñado ni está aprobado para el uso que tiene por resultado la circulación a pie.

La barrera envolvente para casas Grip-Rite no es retardadora del vapor ni barrera contra el vapor; refiérase al informe 2248 de ICC – ESR para pruebas adicionales o información sobre las propiedades físicas.

Donde se requiera el sellado de penetraciones, utilice la cinta para barrera envolvente para casas Grip-Rite. Para mejores resultados, el sustrato debe estar seco y la cinta aplicada con un rodillo de presión de silicona. Ubique la cinta para distribuir equitativamente la superficie de la cinta en cada plano de fijación.

**ADVERTENCIA:** La barrera envolvente para casas Grip-Rite® puede ser resbalosa y no se debe caminar sobre ella. Se recomienda el uso de andamios o puntales extensibles en todas las aplicaciones a nivel del primer piso o sobre él.

\*Las puertas y ventanas deberán instalarse de acuerdo con los procedimientos de instalación del fabricante.

**PRIME SOURCE**® Made in China / Hecho en China  
BUILDING PRODUCTS, INC.

800-676-7777  
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www.primesourcebp.com

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# COMMERCIAL-GRADE WEATHER BARRIER

## BARRERA DE PROTECCIÓN CONTRA LA INTEMPERIE DE CATEGORÍA COMERCIAL

### White Translucent

- ✓ Air Filtration Barrier
- ✓ Moisture Protection Barrier
- ✓ Weather-Resistive Barrier
- ✓ U.V. Treated

### Blanca translúcida

- ✓ Barrera contra la filtración de aire
- ✓ Barrera de protección contra la humedad
- ✓ Barrera resistente a la intemperie
- ✓ Tratamiento U.V.

ICC-ES ESR-2252

### Grip-Rite® Commercial-Grade Weather Barrier Installation Instructions

First and foremost, comply with all local building codes and permitted plans. Stage the project with scaffolding, pump jacks or other safe staging means that comply with state and local safety regulations.

Grip-Rite commercial-grade weather barrier shall be installed over sheathed exterior walls only. Carefully inspect the substrate to ensure it is suitable for covering. The sheathing should be dry and properly secured to the framing. If the walls are insulated from the exterior, ensure the insulation is adequately secured to the walls in compliance with the insulation manufacturer's installation instructions.

Exterior wall penetrations, including windows, vents, hose bibs, electrical boxes and knife plates, shall be flashed in compliance with local building codes and manufacturer's published installation instructions. Flashing materials shall comply with ICC Acceptance Criteria. Flashings and Grip-Rite commercial-grade weather barrier shall be fully integrated to shed water. To form an air barrier, all joints and transitions must be fully sealed with an approved tape.

Grip-Rite commercial-grade weather barrier shall be secured to the substrate with 1" plastic headed cap nails for wood framing and minimum #7 diameter screws with plastic washers for steel framing. Grip-Rite fasteners are recommended for this application. Fasteners shall adequately penetrate the framing into the studs for a secure connection. The purpose of the attachment is preliminary attachment only. Full attachment is achieved with the cladding application.

Where battens are installed for rain screen applications, the commercial-grade weather barrier may be secured with the battens at each stud.

The commercial-grade weather barrier shall be installed with the printed side out. Apply horizontally at the base of the wall, overlapping the bottom of the sheathing by 1" (25mm). Overlap each successive course a minimum of 6" at the side laps and 8" at the end laps. Fasteners shall be placed every 12" – 18" o.c. on the vertical studs and 8" o.c. at the sill and top plates.

When installing over non-structural sheathing, attachment shall be to the framing members fully penetrating the sheathing and any exterior insulation. ¾" embedment into the framing is recommended.

Wrap inside and outside corners a minimum of 8" to create a double layer of commercial-grade weather barrier at all corners.

If the commercial-grade weather barrier is to provide temporary protection of the exterior walls, ensure the top course is fully sealed to resist water infiltration.

When the exterior cladding is stucco and the sheathing layer is wood-based, two layers of commercial-grade weather barrier are required unless the lath includes a layer of Grade 'D' paper or a separate layer of Grade 'D' paper is applied over the base layer of commercial-grade weather barrier. All applications shall be compliant with local building codes and industry practice.

Do not apply any surfactants or additives containing surfactants to the surface of the commercial-grade weather barrier as these will negatively impact the water hold-out performance of the product.

Grip-Rite commercial-grade weather barrier has been designed as a weather resistive barrier for application to exterior vertical walls. The product has not been designed, nor is it approved, for any uses resulting in foot traffic.

Grip-Rite commercial-grade weather barrier is not a vapor retarder or vapor barrier. Please refer to ICC – ESR Report 2252 for additional testing or physical property information.

Where sealing of penetrations is required, use Grip-Rite commercial-grade weather barrier tape. For best results, the substrate shall be dry and the tape rolled with a silicone pressure roller. Position the tape to equally distribute the tape surface onto each attachment plane.

**WARNING:** Grip-Rite® commercial-grade weather barrier may be slippery and should not be walked on. Scaffolding or Kick jacks are recommended in all applications at or above the first floor.

\*Windows and doors must be installed in accordance with manufacturers' installation procedures.

### Instrucciones para la instalación de barrera envolvente para casas Grip-Rite

Ante todo, cumpla con la normativa de construcción local y planos autorizados. Disponga el proyecto con andamios, palometas de gato u otros medios seguros para que cumplan con las regulaciones estatales y locales de seguridad.

La barrera contra la intemperie de categoría comercial deberá instalarse con el lado impreso hacia afuera. Inspeccione cuidadosamente el sustrato para comprobar que sea adecuado para el recubrimiento. El revestimiento debe estar seco y adecuadamente asegurado al armazón. Si las paredes tienen aislante desde el exterior, compruebe que el aislante esté adecuadamente asegurado a las paredes de acuerdo con las instrucciones de instalación del fabricante del aislante.

Las aberturas de la pared exterior, incluyendo las ventanas, conductos de ventilación, grifos para manguera, cajetines de electricidad y placas de soporte, deberá protegerse con tapajuntas de acuerdo con la normativa de construcción local y con las instrucciones de instalación publicadas por el fabricante. Los materiales de tapajuntas deberán cumplir con el criterio de aceptación ICC. Los materiales de tapajuntas y la barrera envolvente para casas Grip-Rite deberán estar totalmente integrados para repeler el agua. Para formar una barrera de aire, todas las juntas y transiciones deberán estar totalmente selladas con una cinta aprobada.

La barrera contra la intemperie de categoría comercial Grip-Rite deberá asegurarse al sustrato con clavos con capuchón plástico de 1" (2.5 cm) para armazón de madera y tornillos con arandelas plásticas de diámetro No. 7 mínimo para armazón de acero. Se recomiendan los sujetadores Grip-Rite para esta aplicación. Los sujetadores deberán penetrar adecuadamente el armazón en los montantes para una conexión segura. La finalidad de la fijación es únicamente preliminar. La fijación total se logra con la aplicación del recubrimiento.

Donde estén colocados listones en aplicaciones de impermeabilización, la barrera contra la intemperie de categoría comercial puede fijarse con los listones en cada montante.

La barrera contra la intemperie de categoría comercial deberá instalarse con el lado impreso hacia afuera. Aplique horizontalmente en la base de la pared, superponiendo la parte inferior del revestimiento 2.54 cm/1". Superponga cada sección sucesiva un mínimo de 15.2 cm/6" en los laterales superpuestos y 20.3 cm/8" en los terminales. Los sujetadores deben aplicarse a intervalos de 12" a 18"/30.5 a 45.7 cm en montantes verticales y cada 8"/20.3 cm de centro a centro por la parte superior e inferior de las placas durmientes.

Cuando instale sobre revestimiento no estructural, la fijación deberá ser al armazón penetrando completamente el revestimiento y cualquier aislante exterior. Se recomienda una incrustación de 1.91 cm/3/4" en el armazón.

Envuelva las esquinas interiores y exteriores un mínimo de 8" (20.3 cm) para crear una doble capa de barrera contra la intemperie de categoría comercial en todas las esquinas.

Si la barrera contra la intemperie de categoría comercial es para proporcionar protección temporal en las paredes exteriores, cerciórese de que esté totalmente sellada para hacerla resistente a la penetración del agua.

Cuando el recubrimiento exterior sea estuco y la capa de revestimiento sea a base de madera, se requieren dos capas de barrera contra la intemperie de categoría comercial a menos que los listones incluyan una capa de papel con clasificación "D" o que se aplique una capa aparte de papel con clasificación "D" sobre la base de la barrera contra la intemperie de categoría comercial. Todas las aplicaciones deberán cumplir con la normativa de construcción local y las prácticas de la industria.

No aplique surfactantes ni aditivos que contengan surfactantes a la superficie de la barrera contra la intemperie de categoría comercial ya que impactarán negativamente el desempeño del producto en cuanto a la resistencia al agua.

La barrera contra la intemperie de categoría comercial Grip-Rite ha sido diseñada como una barrera resistente a la intemperie para aplicación en paredes verticales exteriores. El producto no ha sido diseñado ni está aprobado para el uso que tiene por resultado la circulación a pie.

La barrera contra la intemperie de categoría comercial Grip-Rite no es una barrera retardadora del vapor ni una barrera contra el vapor. Refiérase al informe 2252 de ICC – ESR para pruebas adicionales o información sobre las propiedades físicas.

Donde se requiera el sellado de penetraciones, utilice la cinta para barrera contra la intemperie de categoría comercial Grip-Rite. Para mejores resultados, el sustrato debe estar seco y la cinta aplicada con un rodillo de presión de silicona. Ubique la cinta para distribuir equitativamente la superficie de la cinta en cada plano de fijación.

**ADVERTENCIA:** La barrera contra la intemperie de categoría comercial Grip-Rite® puede ser resbalosa y no se debe caminar sobre ella. Se recomienda el uso de andamios o puntales extensibles en todas las aplicaciones a nivel del primer piso o sobre él.

\*Las puertas y ventanas deberán instalarse de acuerdo con los procedimientos de instalación del fabricante.

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