

DuPont™ Tyvek® Protec™ PSU

Peel and Stick Synthetic Roofing Underlayment Installation Guidelines

SYSTEM OVERVIEW

Specifications

- DuPont™ Tyvek® Protec™ PSU is a secondary layer applied over sheathing, under a primary roofing system (asphalt shingles, composite shingles, metal, slate, clay and concrete tile and wood shakes).
- Available in 2.0 square rolls: 36" x 67' (201 ft.²) / 0.914m x 20.4m (18.6m²)
- For use on roofs with slopes 2:12 and higher.
- Must be covered with the final roof cladding within 180 days.
- Should not be considered a final roofing system/primary water barrier.

Building Code Compliance

- Consult local building code and roof cladding manufacturer for use of underlayment.
- Consult local building code and roof cladding manufacturer for underlayment edge and end overlap and fastening requirements that may differ from DuPont™ Tyvek® Protec™ PSU instructions. Follow the more restrictive requirements.
- DuPont™ Tyvek® Protec™ PSU meets 2018 and 2021 International Residential Code (IRC) requirements for peel and stick roofing underlayments, i.e. ASTM D1970. See ICC-ES code report ESR-5378 for more information.
- Additionally, Tyvek® Protec™ PSU meets Florida Building Code (FBC), High Velocity Hurricane Zones (HVHZ), and Miami-Dade County requirements. Note: Not evaluated for use under tile in HVHZ, including Miami-Dade County. See Florida Product Approval FL37886 and Miami-Dade County NOA 23-1018.07 for more information and installation requirements.

Storage

1. Tyvek® Protec™ PSU should be stored upright in its original packaging, in a dry area, and in temperatures above 40°F (5°C).
2. Shelf life is 12 months from date of manufacture when stored in the prescribed conditions.

Precautions and Safety

- Always wear fall protection when working on a roof deck.
- Release liners are slippery. Remove from work area immediately after membrane is installed.
- Caution should be taken when walking on DuPont™ Tyvek® Protec™ PSU until it has been adhered according to instructions.
- Caution should be taken when walking on Tyvek® Protec™ PSU when it is wet or frost-covered.
- Tyvek® Protec™ PSU is not designed to replace the primary roof covering material, or for indefinite outdoor exposure. Final roofing must be installed within 180 days.
- Tyvek® Protec™ PSU is not intended to be installed over existing membranes.
- Apply Tyvek® Protec™ PSU taut and wrinkle-free. Do not stretch.
- Do not apply Tyvek® Protec™ PSU over wet or frost-covered roof sheathing.
- Roof claddings should not be installed over wrinkled or buckled Tyvek® Protec™ PSU.
- Tyvek® Protec™ is **NOT** intended as flashing for:
 - Windows
 - Doors
 - Wall Penetrations
- Consider precutting length for greater ease of handling material.

Preparation

- Ensure roof deck is dry, smooth, clean and defect free. DuPont™ Tyvek® Protec™ PSU cannot be installed over existing roof cladding.
- Tyvek® Protec™ PSU is a vapor barrier. Ensure that the space beneath the roof sheathing is properly ventilated before installation.
- Valley applications must be completed before both the eaves and field installations.

INSTALLATION

DuPont™ Tyvek® Protec™ PSU Installation Instructions

Apply DuPont™ Tyvek® Protec™ PSU and roof covering material in favorable weather conditions, at temperatures of 40°F (5°C) or higher.

1. Always work from the low point of the roof to the high point of the roof.
2. Cut rolls into manageable lengths (10'–20') for your specific job. Remove the first 1'-2' of the upper release liner and firmly attach product onto roof deck. Roll out and align the product. Remove the remaining release liner and apply with firm pressure.
3. Fold back the bottom portion of DuPont™ Tyvek® Protec™ PSU to expose the entire lower half of release liner. Remove release liner and apply the lower section of the roll to the roof deck.

NOTE: Release film can be slippery. We suggest that you get the release film off the roof immediately after removing it from the DuPont™ Tyvek® Protec™ PSU.

4. Apply firm hand pressure, roll with a roller, or walk on the membrane, to push the bitumen into the pores of the roof deck or overlaps.
5. Install the membrane such that all laps shed water. End laps must be 6 in. (150mm) and side laps are 3 in. (75mm). DuPont™ Tyvek® Protec™ PSU has a lane at the top of the material as guidance for laps. The overlap from the top layer shouldn't exceed past this lane onto the embossed pattern of the material.
6. Repair holes, fish mouths, tears and any other penetration damage with a round patch of membrane extending past the damaged area 6 in. in all directions.

Valley and Ridge Installation

For valley and ridge applications, once DuPont™ Tyvek® Protec™ PSU is correctly positioned and pushed tightly into the valley, peel one side of the release liner and press down with roll pressure or a firm hand pressure into place. When installing along the valley and ridge, work from the center outward and start from the low point of the roof.

Reminder: Valley applications must be completed before both the eaves and field installs.

Eave Installation

Make sure the DuPont™ Tyvek® Protec™ PSU is extended on the roof deck above the highest expected level of water back-up from ice dams and above the highest expected level of snow and ice on the wall sheathing on vertical side walls for ice dam protection. Check local code regulation to help determine appropriate coverage for protection against ice dams. A second layer should be considered in critical areas (eaves or valleys) where the climate causes severe ice dams. Along eaves, install metal drip edge under the Protec™ PSU underlayment unless otherwise directed by local building codes. Along rakes, apply Protec™ PSU underlayment first, and install drip edge on top. For wind driven rain protection, apply the membrane to the entire roof deck.

Warranty

DuPont™ Tyvek® Protec™ PSU is covered by a 30-year limited product replacement warranty (see warranty document online).

DUPONT

Tyvek
Protec™ PSU

For more information about DuPont™ Tyvek® Protec™ PSU, contact your local DuPont Sales Representative, visit residentialroofing.dupont.com, or call 1-833-7668.

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CAUTION: When cured, these products are combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F (116°C). For more information, call the DuPont Contact Center at 866-583-2583 or contact your local building inspector. For emergencies, contact Chemtrec 800-424-9300, CCN (Contract Number) 7442. The blowing agent contained within this product can exhibit vapor flame limits under the right conditions. If specific operating conditions are such that concentrations of the blowing agent above the lower flammable limit can accumulate in areas with high relative humidity and in the presence of high-energy electrical discharges or other ignition sources, additional measures such as increased ventilation or coded electrical equipment (class one, division two) may be warranted. DO NOT SMOKE DURING USE. DO NOT USE NEAR ANY OPEN FLAME OR ELECTRICAL SOURCE. OUTDOOR USE ONLY. INDOOR USE INCREASES LIKELIHOOD OF IGNITABLE CONDITIONS. INSTASTIK™ Quik Set Commercial Roofing Adhesive contains isocyanate and a blowing agent. Read the label and (Material) Safety Data Sheet (MSDS) carefully before use. Wear gloves, and goggles or safety glasses. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure. For outside use only.

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