

PSU30 Installation Instructions

Titanium® PSU30 Underlayment is designed as a secondary water barrier for use on steep slope roofs (2:12 or greater) under asphalt shingles, composite shingles, metal roofing, concrete and clay tile, slate and wood shakes.

CAUTION:

Read and understand all instructions and precautions before applying Titanium® PSU30 Underlayment. Check local building codes prior to application of this product. Follow the recommendations of the roof covering manufacturer, Asphalt Roofing Manufacturer's Association (for asphalt shingles), Tile Roof Institute (for clay or concrete roof tiles) and the Metal Roofing Alliance (for metal roof panels).

DECK PREPARATION:

Titanium® PSU30 Underlayment should be applied on roofs having slopes of 2:12 or greater. This product can be applied on new construction or when reroofing, provided existing roofing has been removed. The deck must be clean, smooth and dry before applying Titanium® PSU30 Underlayment. Remove all old roofing down to the deck or, in new construction, apply over the new deck. Sweep the deck surface to remove dirt and debris. Replace any damaged or rotted deck boards.

DECK EDGE PREPARATION:

Along eaves, install metal drip edge under the Titanium® PSU30 Underlayment unless otherwise directed by local building codes. Along rakes, apply Titanium® PSU30 Underlayment first, then put drip edge on top.

FOR TILE ROOF APPLICATION:

Please see the table below for tile loading limitations. Loading of tile outside the parameters of this table requires installation of loading battens prior to tile loading.

TILE LOADING TABLE

| Tiles in Stack | Stacking Pattern | Tile Type | Maximum Roof Pitch |
|----------------|------------------|-----------|--------------------|
| 10 | 10 Linear | Flat | 5:12 |
| 10 | 10 Linear | Profiled | 6:12 |

Note: When installing Titanium® PSU30 Underlayment over the entire roof deck, proper ventilation is required. Consult a design professional and local building codes for ventilation requirements.

INSTALLATION:

1. Ensure that decking substrate is acceptable to roof covering manufacturer.
2. Unroll Titanium® PSU30 Underlayment and cut into manageable lengths no more than 15 to 20 feet.
3. Allow it to relax for 3 to 5 minutes before installing.
4. Reroll each section.
5. Start at the eaves, laying the Titanium® PSU30 Underlayment parallel to the eaves edge, with the lower edge of the Titanium® PSU30 Underlayment flush with the outside of the primed drip edge. The lower edge of the underlayment is the edge that does not have a selvage edge.
6. After installation of each piece, remove the release lining from the selvage. If necessary, secure with nails installed in the selvage spaced 6 inches on center. This fastening is required when Titanium® PSU30 Underlayment is installed on slopes of 3:12 or greater. Consult local building codes for fastener requirements.
7. The entire roof surface should be rolled after installation of the Titanium® PSU30 Underlayment using a minimum 40 lb. roller. Hand roll over the selvage and directly above the selvage using a minimum 4 inches wide, minimum 10 lb. roller is recommended.
8. Overlap at least 6 inches when the ends of two rolls meet. To ensure good adhesion at the end lap, apply a minimum 6 inches width of a solvent-based asphaltic primer that complies with ASTM D41 across the width of the sheet using a roller, brush or aerosol primer. As an alternative, asphalt roof cement that complies with ASTM D4586 may be used, approximately 1/8 inch thick (excessive roof cement can have an adverse reaction to the product). Apply heavy hand pressure or use a roller along the seam overlapping the next roll.
9. End laps should be offset a minimum of 6 feet on adjacent courses.
10. Along a valley, Titanium® PSU30 Underlayment can be cut lengthwise for easier handling. For maximum protection, the roll width should remain intact and extend 18 inches on either side of the valley. Remove the release backer and press Titanium® PSU30 Underlayment into place, working from the center of the valley or ridge outward in each direction. Always apply

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valleys starting at the low point and work upward. If an overlap is needed, be sure to overlap the previous piece by minimum 4 inches. Titanium® PSU30 Underlayment should be applied in valleys before installing eaves applications with membranes.

For further detail on various installation methods, please call 1-800-ROOFING (1-800-766-3464).

PRECAUTIONS:

1. Cover Titanium® PSU30 Underlayment with finish roof covering. Do not allow Titanium® PSU30 Underlayment to remain uncovered. Exposure to sun and weather for more than 180 days may adversely affect this product's performance.
2. Titanium® PSU30 Underlayment should be installed by a professional roofing contractor.
3. Titanium® PSU30 Underlayment is a moisture and vapor barrier. The spaces under the covered deck area and the attic space must be ventilated in accordance with local building codes.
4. Titanium® PSU30 Underlayment is intended for exterior roof application only and is not intended for use on vertical surfaces.
5. Apply Titanium® PSU30 Underlayment directly to the wood deck. Do not apply any underlayment beneath Titanium® PSU30 Underlayment unless required to do so by local codes.
6. Roof coverings should not be installed over wrinkled or buckled Titanium® PSU30 Underlayment.
7. Use extreme caution when installing Titanium® PSU30 Underlayment. The Titanium® PSU30 Underlayment surface may be slippery even when dry. Use of fall protection is highly recommended. Consult OSHA for guidelines on fall protection (29 CFR 1926.500).
8. For best results, apply Titanium® PSU30 Underlayment when the air temperature is over 40°F (5°C) and rising, but below 100°F (38°C). When temperatures are under 40°F (5°C), Titanium® PSU30 Underlayment will not fully adhere. Store at room temperature prior to installing product in cold weather. If applied in temperatures above 100°F (38°C), or exposed to direct sunlight, the release backing may become difficult to remove. If this situation should occur, move the product into a shaded area until the Titanium® PSU30 Underlayment is cool. Once cooled, the release backing can be easily removed.
9. Store Titanium® PSU30 Underlayment in a dry, well-ventilated area. Stand Titanium® PSU30 Underlayment upright. Do not store at 90°F (32°C) or warmer for extended periods of time. Do not store in direct sunlight.
10. When applying Titanium® PSU30 Underlayment, always follow local building codes and the roof covering manufacturer's instructions for installation of this product.
11. When working on the roof, use all necessary safety precautions and guidelines in accordance with proper roofing trade practices.

CAUTION - READ GOOD SAFETY PRACTICES BELOW

As with any roofing product, always follow safe roofing codes & practices (OSHA) and always use and wear fall protection devices when working on roofs. Release liners are slippery and should be removed from work area immediately after application. Use caution when walking or standing on Titanium® PSU30 Underlayment as slip resistance may vary with surface conditions, weather, footwear and roof pitch. Failure to use proper safety gear and footwear can result in serious injury.

TITANIUM® PSU 30

SYNTHETIC ROOFING UNDERLAYMENT

Premium Self Adhered Underlayment for Protection from Wind Driven Rain, Water, Snow and Ice Dams
For use under all:
Metal, Tile, Slate, Asphalt or Synthetic Shingles and Cedar Shake Roofing

BETTER WALKABILITY!

SURE-FOOT®

Patented Sure-Foot® nodular walking surface



*See warranty for complete details, coverage and restrictions.



Titanium® PSU30 is the only modified rubberized asphalt self-adhered underlayment with a patented slip resistant Sure-Foot® nodular walking surface technology that allows for easier steep slope walkability, even in wet conditions. PSU30 also features a silicon treated poly split release liner making removal quicker and easier than single sheet competitors.

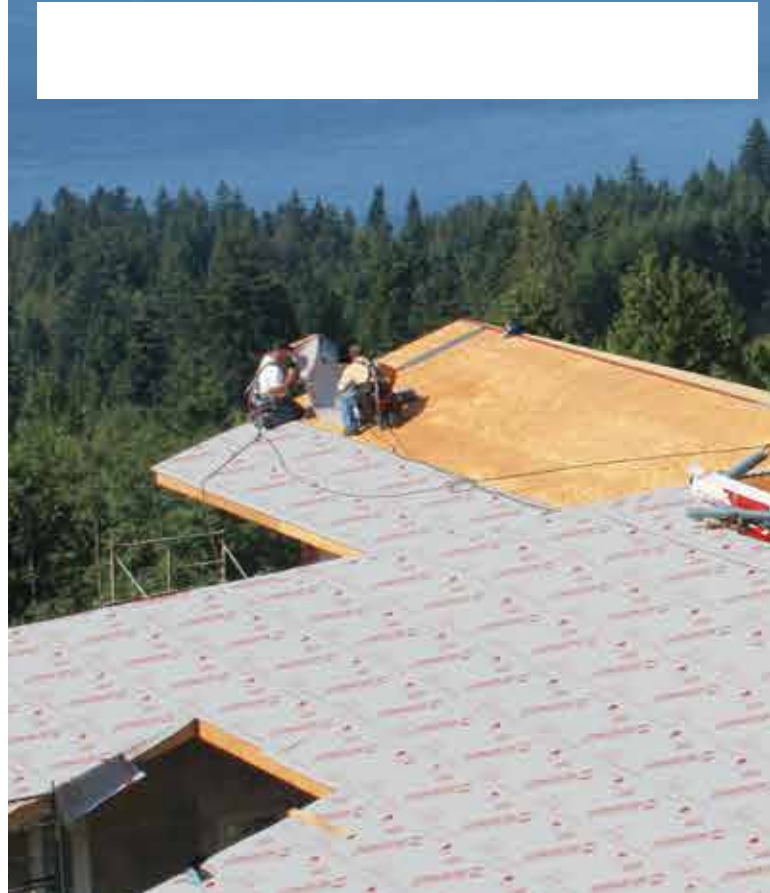
PSU30 is specifically designed to create a waterproof barrier on slopes 2:12 or greater where roof applications are subject to the effects of ice damming and wind driven rain. Its rubberized asphalt adhesive offers a unique combination of both high temperature (240°F / 115°C) stability, and low temperature (40°F / 4.4°C) deck adhesion. In addition, PSU30 offers up to 6 months UV exposure rating. PSU30 can be applied to the roof deck under metal, tile, shake, slate, asphalt and synthetic shingles. Used in conjunction with Titanium UDL synthetic roofing underlayment, these products provide a complete roof deck protection system by one of the most trusted brands contractors rely on.

PSU30 has a cool gray surface that provides a cooler working surface during installations. Its tough, durable, coated woven synthetic facer and asphalt formulation is engineered to lay flat and not buckle or wrinkle when exposed to temperature and moisture fluctuations on the roof.

PSU30 is also a granular free surface. Loose granules can score the underside of metal roofing, and track underneath footing causing damage, premature corrosion, and potentially void the manufacturer warranty. Titanium PSU30 provides an excellent seam overlap, and durability compared to a granular surface which are critical issues for ice damming and wind-driven rain protection.

For increased protection, PSU30 provides a self-sealing horizontal lap seal system that forms a watertight asphalt to asphalt bond at overlapping seams, delivering waterproofing protection.

Ensure you have the right product protecting your home. Titanium PSU30, a premium self-adhered underlayment, will provide a secondary layer of protection against leaks for your high-performance roofing system. PSU30 comes with a Lifetime Limited Warranty.*



PREMIUM PROTECTION

Secondary Water Barrier

Watertight lap system

The asphalt to asphalt watertight lap system protects against wind driven rain, water, snow and ice dams.

Safer slip resistance

Our patented Sure-Foot® nodular surface provides excellent walkability and slip resistance even in wet conditions.

Split release liner

Our silicone treated split-release liner makes removal quicker and easier than single sheet liners.

Strong deck adhesion

The modified rubberized asphalt provides a superior combination of low temperature deck adhesion and high temperature flow resistance.



- Secondary Water Barrier
- Watertight asphalt to asphalt horizontal lap system
- Up to 6 months UV exposure rating
- Meets or exceeds ASTM D1970
- ASTM E108 Class A Fire Resistance When Installed Under Asphalt Shingles
- PSU30 is approved for use with ICP AH-160 and RTA-1, and Dow TileBond foam adhesives
- Florida Product Approval
- All temperature performance -20°F to 240°F
 - Installation temperature 40°F and above
- Synthetic construction inert to mold growth
- Cool gray surface

TITANIUM PSU30 ROLL SPECS

| | |
|-------------------|-------------------------------|
| LENGTH PER ROLL: | 72' / 22 m |
| WIDTH PER ROLL: | 36" / 0.914 m |
| WEIGHT PER ROLL: | 51 lbs / 23.1 kg |
| GROSS ROLL SIZE: | 216 sq ft / 20 m ² |
| NET OF OVERLAP: | 2 sq / 18.58 m ² |
| ROLLS PER PALLET: | 25 |
| PALLET WEIGHT: | 1,356 lbs (615 kg) |

TITANIUM PSU30 TECHNICAL DATA

| TEST & STANDARD [†] | TITANIUM PSU30 TYPICAL VALUE |
|------------------------------|--|
| Color | Gray |
| Surface | Synthetic Polymer - Patented Sure-Foot® slip resistant nodular |
| Release Liner | Silicone treated, poly split release |
| Weight Per Square | 23.6 lbs (10.7 kg) |
| Nail Sealability | ASTM D1970 Pass |
| Permeability | ASTM E96 < 0.1 perms |
| Nominal Thickness | ASTM D5147 52 Mills (1.3 mm) |
| Tensile | ASTM D1970 > MD 25 lbs/in (4.4kN/m) CD 25lbs/in (4.4kN/m) |
| Thermal Stability | ASTM D1970 240° F (115° C) Pass |
| Low Temp Flexibility | ASTM D1970 Pass |
| Tear Resistance | ASTM D1970 > MD 20 / lbf (89N) / CD 20 lbf (89N) |
| Adhesion to Plywood | ASTM D903 40F (>2 lb/ft) / 75F (>12 lb/ft) |

Titanium PSU30 Self-Adhered Underlayment

Brentwood, NH • Charleston, SC • Mission, BC • Montréal, QC/
ChooseTitanium.com
Toll Free: 800-567-9727
E-mail: answers@owenscorning.com

[†]Titanium brand products are manufactured in accordance with national standards which allow for non-critical variances in weights and measurements. Test data is based on an average taken over several production runs and should not be considered or interpreted as maximum or minimum values. Values are typical data and not limiting specifications. All values ± 10%. For patent information, please visit www.owenscorning.com/patents