

Titanium® PSU30 is a secondary water barrier for use on steep slope roofs under asphalt shingles, composite shingles, metal, concrete and clay tile, slate, and wood shakes. Titanium® PSU30 is a flexible, high temperature premium self-adhered underlayment designed with the patented Sure-Foot® nodular walking surface technology that allows for easier steep slope walkability, even in wet or dusty conditions.

It's tough, durable, coated woven synthetic facer and rubberized asphalt formulation is engineered to lay flat and not buckle or wrinkle when exposed to temperature and moisture fluctuations on the roof.

PSU30 is designed full roof deck waterproof protection with 180 day UV exposure rating. Titanium PSU30 used in conjunction with Titanium UDL30 synthetic roofing underlayment provides complete roof deck protection from the brand contractors know and trust.

PSU30 provides a surface that will help protect the underside of the metal from natural movement without causing damage to the underneath of metal roofing systems, compared to other underlayments that could cause damage to metal roofing systems including making them susceptible to premature corrosion.

## TITANIUM PSU30 ROLL SPECS

<b>LENGTH PER ROLL:</b>	72' / 22 m
<b>WIDTH PER ROLL:</b>	36" / 0.914 cm
<b>WEIGHT PER ROLL:</b>	48 lbs / 21.8 kg
<b>GROSS ROLL SIZE:</b>	216 sq ft / 20 m <sup>2</sup>
<b>NET OF OVERLAP:</b>	2 sq / 18.58 m <sup>2</sup>
<b>ROLLS PER PALLET:</b>	25
<b>PALLET WEIGHT:</b>	1,300 lbs / 590 kg

- Split-release liner
- Watertight asphalt to asphalt horizontal lap system
- Up to 180 days 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

## PREMIUM PROTECTION SECONDARY WATER BARRIER

### HIGH TEMPERATURE RATED

Designed and engineered to withstand high temperatures (240°F / 115°C) in metal applications

### STRONG DECK ADHESION

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

### WATERTIGHT LAP SYSTEM

PSU30 provides a self-sealing lap seal system which forms an impervious asphalt to asphalt bond at overlapping seams, delivering superior waterproofing protection.

### SAFER SLIP RESISTANCE

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

## TITANIUM PSU30 TECHNICAL DATA

TEST & STANDARD*	TITANIUM PSU30 TYPICAL VALUE
<b>COLOR</b>	Gray
<b>SURFACE</b>	Synthetic Polymer - Patented Sure-Foot® slip resistant nodular
<b>RELEASE LINER</b>	Silicone treated, poly split release
<b>WEIGHT PER SQUARE</b>	24 lbs / (10.8 kg)
<b>NAIL SEALABILITY</b>	ASTM D1970 Pass
<b>PERMEABILITY</b>	ASTM E96 0.0336
<b>NOMINAL THICKNESS</b>	ASTM D5147 45 Mil (1.1 mm)
<b>TENSILE</b>	ASTM D1970 MD 100 lbs/in / (17.5 kN/m) CD 80 lbs/in (14 kN/m)
<b>THERMAL STABILITY</b>	ASTM D1970 240° F (115° C) Pass
<b>LOW TEMP FLEXIBILITY</b>	ICC AC 48 Pass
<b>TEAR RESISTANCE</b>	ASTM D1970 MD 140 / CD 100 lbf (622/445 N)
<b>ADHESION TO PLYWOOD</b>	ASTM D903 4 lb/in (700 N/m)

### TITANIUM® Synthetic Roofing Underlayment

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\*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%.

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# TITANIUM® PSU 30

## SELF-ADHERED ROOFING UNDERLAYMENT

PREMIUM HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT FOR PROTECTION FROM SHINGLE BLOW-OFF, WIND-DRIVEN RAIN AND ICE DAMMING

FOR USE UNDER:

ASPHALT, METAL, TILE, SLATE,  
SHAKE & COMPOSITE SHINGLES



SUPERIOR WALKABILITY!



Patented Sure-Foot nodular walking surface



## PSU30 INSTALLATION INSTRUCTIONS

### 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

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.

### 1 ALLOWABLE SUBSTRATES

PSU30 self-adhered underlayment can be installed over Plywood, OSB, FRT Plywood, Polyisocyanurate foam insulation board, metal (galvalume steel), 30lb felt, PSU30, pre-wrapped sheathing, DensDeck® and USG Securock® Primer is not required on clean, dry deck surfaces, except for gypsum boards (DensDeck® and USG Securock® roof boards) for which appropriate primer or adhesive is recommended at temperatures ≤ 40F.

### 2 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, and put drip edge on top.

### TILE ROOF INSTALLATION

Please see the table 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.

### METAL ROOF INSTALLATION

#### Slopes 2:12 and greater

Follow standard installation instructions below.

#### Slopes ½:12 - less than 2:12

For standing seam metal roof panels follow standard installation instructions below with the following modifications: End Laps must be min. 6 feet apart in adjacent courses. All end laps must be minimum 6 inches wide. Apply min. 6 inch wide bed of ASTM D4586 compliant roof cement at end of underlying piece and set overlying piece into roof cement, applying firm pressure on entire end lap.

#### STANDARD 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 - 20 feet.
3. Allow it to relax for 3-5 minutes before installing.
4. Reroll each section.
5. Start at the eaves, laying the Titanium® PSU30 parallel to the eaves edge, with the lower edge of the Titanium® PSU30 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 and, if necessary, secure with nails installed in the selvage spaced 6 inches on center. This fastening is required when Titanium® PSU30 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 using a minimum 40 lb. roller. Hand rolling 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 where the ends of two rolls meet. 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 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 eave 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 PSU30 directly to the roof deck. Allowable roof deck materials are shown in Section 1 of these instructions. Do not apply Titanium® PSU30 over another layer of underlayment unless required 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.

**HIGH TEMP**

**ICE/DAM PROTECTION**  
LOW TEMP INSTALL

