

## Storage & Installation Instructions

Titanium® PSU30 is designed as a secondary water barrier for use on steep slope roofs (2:12 or greater) under; Asphalt Shingles, Synthetic Shingles, Metal Roofing, Tiles, Slate, and Cedar Shakes. For application under copper or zinc roofing materials please call technical services.

### STORAGE:

1. PSU30 should be stored at room temperature, upright in the original cardboard packaging in a dry properly ventilated area. Keep product sheltered from the elements.
2. Only rolls destined for same-day use should be removed from their storage area.
3. For best results store in temperatures between 40°F (4.4°C) and 90°F (32°C). If room temperature storage is not available and product is at a temperature of 40°F (4.4°C) or less, move the product to a warm area prior to application. If product has been stored in temperatures above 90°F (32°C) it may become difficult to remove the release backing. If this situation should occur, move product into a shaded area until the product is cool. Once cooled, the release backing can be easily removed.

### DECK PREPARATION:

1. Protrusions from the deck area must be removed and decks shall have no voids, damaged or unsupported areas. Deck surface should be free of debris and moisture.
2. PSU30 must be applied directly to minimum 3/8-inch-thick plywood, 7/16 inch-thick OSB decking, or minimum 6 inch-wide deck boards (gaps no greater than 1/4 inch).
3. For re-roofing projects, replace any water damaged sheathing and sweep roof deck thoroughly removing dust, dirt and loose nails. Do not install over old roof covering.

### APPLICATION:

1. For best results PSU30 must be installed over a clean, smooth, and dry deck.
2. For cold weather applications 40°F (4.4°C) or below, a primer should be used and the laps blind nailed (see note 5 under application). The primer should be solvent, or water based and meet ASTM D41 for asphalt based self-adhering membranes.
3. For steep slope applications (5:12 or greater), high wind areas, or when installing at temperatures greater than 100°F (38°C), it is recommended to blind nail the selvage edge area as per note 5 below under application.
4. PSU30 is to be laid out horizontally (parallel) to the eave with the printed side up, using 3 inches horizontal laps and 6 inches vertical laps with the lower edge of the PSU30 flush with the outside of the drip edge. The lower edge of the underlayment is the edge that does not have a sticky selvage edge. End laps should be offset a minimum of 6 feet on adjacent courses.
5. After installation of each piece, remove the release lining from the selvage edge and, if necessary, secure with nails installed in the selvage edge spaced 12 inches on center. Blind nail with minimum 3/8-inch head roofing nails of sufficient length to penetrate the sheathing. Nails should be spaced at 12 inches on center in the film selvage area. Consult local building codes for fastener requirements.
6. Always work from the low point to the high point of the roof. Apply the membrane in valleys before the membrane is applied to the eaves.
7. Cut the membrane into 15 foot to 20 foot lengths. Peel back 1-2 feet of release liner, align the membrane, and continue to peel the release liner from the membrane. Hand press or walk on, then follow with a 40 lb or heavier weighted roller to smooth and secure the membrane. Hand rolling over the selvage edge and directly above the selvage edge using a minimum 4 inch-wide, 10 lb. roller is recommended. If a roller is not available or not considered safe, walk on all laps, and as much of the field area as possible.
8. PSU30 should be applied over the metal drip edge at the eaves unless otherwise specified by local codes. Along rakes, apply PSU30 underlayment first, and install drip edge over the underlayment. Do not fold PSU30 over the roof edge unless the edge is subsequently covered over by a drip edge or other flashing material.
9. In areas where ice damming can occur, install PSU30 from the eaves up the roof to a point not less than 24 inches inside the exterior wall, measured horizontally. Consult your local building code for specific requirements.

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10. For valley applications, peel the release liner; center the sheet over the valley and hand press in place from the center of the valley outward. Note: It is very important PSU30 stay in contact with the roof deck into and out of the valley area. PSU30 should never be suspended or bridge a valley. It is recommended to follow up with a weighted roller or by walking on the surface. Give special attention to ALL perimeter edge areas.
11. Repair holes, fish mouths, tears, and any other penetration damage to the membrane with a round patch of membrane extending passed the damaged area by 6 inches in all directions. If fasteners are removed leaving holes in the membrane or other penetrations are accidentally produced, they must also be patched.
12. Do not install fasteners through membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.
13. For geographies with high elevation, high wind or wind driven rain it is recommended to cover the entire roof deck with PSU30.

### PRECAUTIONS:

1. Titanium PSU30 is a moisture and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type.
2. 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).
3. PSU30 must NOT be installed over uncured caulking, uncured sealants or flexible vinyl. If the underlayment is installed over any of these materials, the adhesive will melt and run causing unsightly streaks and drips. It is the installer's responsibility to determine whether all the materials used are compatible with each other. Contact the caulking or sealant manufacturer to ensure the product is compatible with asphalt.
4. PSU30 is not designed for indefinite outdoor exposure. Final roofing should be installed within 180 days of underlayment installation.
5. Depending on roof pitch and surface conditions, loading cleats (battens) may be required to support roofing materials placed on the roof. Remember to seal the fastener holes that secured the cleats/battens after they have been removed.
6. Protect completed roof areas to avoid damage during roof installation and material transportation by installing protective boardwalks to enable passage of people, equipment and products.
7. Be careful not to load too much material on the roof deck in one area. Disburse the weight over structural supports where possible.
8. The maximum roof slope for PSU30 underlayment shall be 2:12 when tiles are loaded directly onto the underlayment; loading boards are required on roof pitches greater than 2:12. Tiles should not be stacked higher than 10 tiles per stack. Check with tile manufacturer for their requirements.

### 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 PSU30 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

TITANIUM®  
**LIFETIME**  
LIMITED  
WARRANTY



Roofers

rely on it.™

\*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.

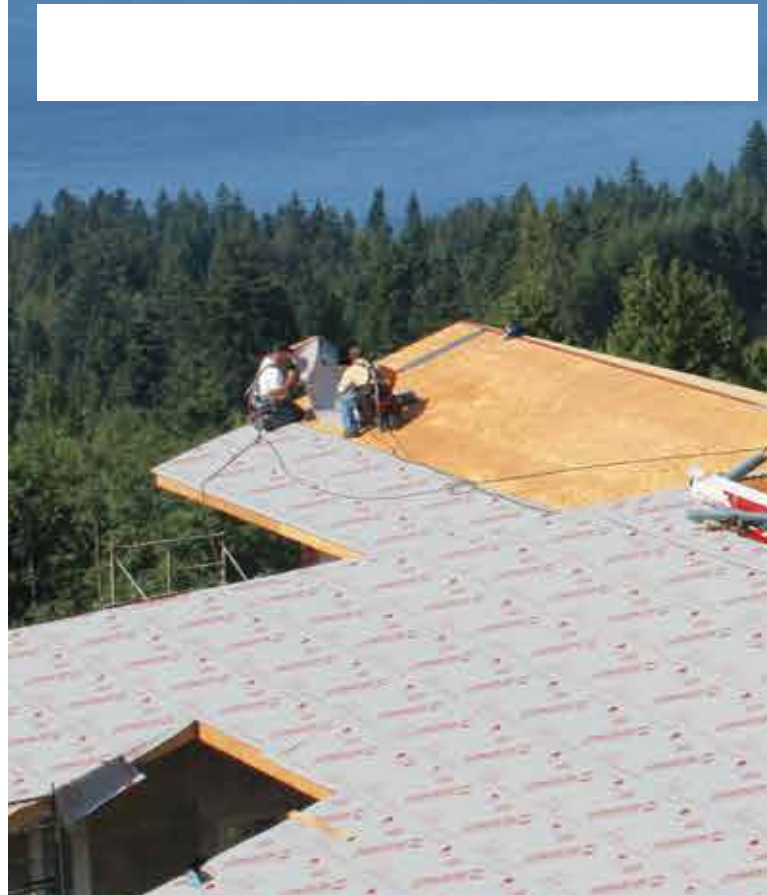
PSU30 is specifically designed to create a waterproof barrier on slopes 2:12 or greater where roof applications are subject to the effects of ice damming and wind driven rain. Its rubberized asphalt adhesive offers a unique combination of both high temperature (240°F / 115°C) stability, and low temperature (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. z 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
- Class A Fire ASTM E108, Under Asphalt Shingles
- 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 <sup>2</sup>
NET OF OVERLAP:	2 sq / 18.58 m <sup>2</sup>
ROLLS PER PALLET:	25
PALLET WEIGHT:	1,356 lbs (615 kg)

### TITANIUM PSU30 TECHNICAL DATA

TEST & STANDARD <sup>†</sup>	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	Pass
Permeability	< 0.1 perms
Nominal Thickness	52 Mills (1.3 mm)
Tensile	> MD 25 lbs/in (4.4kN/m) CD 25lbs/in (4.4kN/m)
Thermal Stability	240° F (115° C) Pass
Low Temp Flexibility	Pass
Tear Resistance	> 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

<sup>†</sup>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](http://www.owenscorning.com/patents)