

TITANIUM® PSU-30 Installation & Storage Instructions

STORAGE

1. TITANIUM PSU-30 must remain in the original packaging adequately protected and stored in a dry properly ventilated area. Keep away from open flames, sparks and sheltered from elements and harmful substance.
2. The rolls must be carefully stored upright.
3. Only rolls destined for the same-day use should be removed from this storage area.
4. Avoid prolonged storage above 90°F (32°C).
5. In cold weather, the material must be heated to a minimum temperature of 40° F (4°C) prior to application. If rolls cannot be stored in a heated environment, they may be pre-conditioned before installation.
6. Be careful not to load too much material on the roof in one area. Disburse the weight over structural supports where possible.

SURFACE PREPARATION

1. TITANIUM PSU-30 must be installed on clean, dry, protrusion and moisture free, continuous structural deck.
2. Deck shall have no voids, damaged or unsupported area.
3. Remove dust, dirt, loose nails and old roofing material. Use of calcium or salt for ice and snow removal is not recommended.
4. To improve adhesion performance it may be required to prime the roof surface with a solvent or water based primer for self adhesive membranes.

INSTALLATION

TITANIUM PSU-30 must be installed above properly ventilated areas, as it's considered a vapor barrier. Apply TITANIUM PSU-30 on a dry and moisture free deck, only in dry weather, when the air, membrane and the substrate are at temperature over 40°F (4.4°C). For applications below 40°F a primer should be used. Do not install on the end grain of wood planks. Do not install directly over old roof covering. Repair holes, fish mouths, tears, and any other penetration damage to the membrane with a round patch of membrane extending passed the damaged area 6 inches (150 mm) in all directions. If fasteners are removed leaving holes in the membrane or other penetrations are accidentally produced, they must be patched, or warranty is void. Do not install fasteners through membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.

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. It is recommended to use a double layer of TITANIUM PSU-30 and repair any damage in critical areas, such as the valleys or along the eaves in climates where severe ice damming is expected. For high elevation, high wind or wind driven rain protection it is recommended to cover the entire roof deck with TITANIUM PSU-30.

TITANIUM PSU-30 is to be laid out horizontally (parallel) to the eave with the printed side up, using 3"(76 mm) horizontal laps and 6"(152 mm) vertical laps. Prior to application of the second course remove the white release liner tape to expose the lap seal asphalt. Care should be taken not to walk on or contaminate the lap seal once exposed. TITANIUM PSU-30 may also be installed vertically. It is recommended to blind nail the membrane on steep slopes (6/12 or greater). PSU-30 should be blind nailed with 3/8 roofing nail of 1 inch or longer in the 3" over lap area as marked with a + symbol.

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. Cut the membrane into 10-15 foot (3-5 M.) lengths and re-roll loosely. Peel back 1-2 feet (30-60cm) of release liner, align the membrane, and continue to peel the release liner from the membrane. Hand press first followed by a heavy 75-100 lb pressure roller to smooth and secure the membrane, especially at the overlap layers. If a roller is not available or safe, all laps and as much of the field area should be walked on to push the adhesive in to the pours of the roof deck. For valleys and ridge applications, peel the release liner; center the sheet over the valley or ridge, drape, and hand press in place followed by a pressure roller or walking on it. When left exposed prior to application of primary roof covering, secure membrane in place carefully sealing the laps, to protect against uplift from wind exposure.

Do not fold TITANIUM PSU-30 over the roof edge unless the edge is subsequently covered over by a drip edge or other flashing material. Do not install on the end grain of wood planks. Do not install directly over old roof covering. Repair holes, fish mouths, tears, and any other penetration damage to the membrane with a round patch of membrane extending passed the damaged area 6 inches (150 mm) in all directions. Depending on roof pitch and surface conditions, blocking maybe required to support roofing materials placed on the roof. For extended exposure applications, the surface layer may be slightly discolored; this is normal, and will not effect the product performance.

TITANIUM PSU-30 is not designed for indefinite outdoor exposure. Final roofing should be installed within 3 months.

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, remove from work area immediately after application. Use caution when walking or standing on TITANIUM PSU-30 as wet and/or dusty conditions may reduce traction. Failure to use proper safety gear and footwear can result in serious injury. Beyond the TITANIUM PSU-30 application instructions you should check with your local, county, state or national code as applicable.

Distributed by:



ARCAT



RCABC



TITANIUM® PSU 30

SYNTHETIC ROOFING UNDERLAYMENT

**PREMIUM
ICE DAMMING &
LEAK PROTECTION,
PEEL & STICK,
HIGH & LOW TEMP.**

AIR, WATER & VAPOUR BARRIER

TITANIUM[®] PSU 30

SYNTHETIC ROOFING UNDERLAYMENT

AIR, WATER & VAPOR BARRIER FOR USE UNDER ALL: METAL, TILE, SLATE, SHAKE & SHINGLE ROOFING

TITANIUM[®] PSU-30 is the only modified rubberized asphalt PEEL & STICK with a tough, rugged surface and a self sealing lap system!

TITANIUM[®] PSU-30 is an advanced, slip resistant synthetic polymer surfaced self-adhered roofing underlayment. It is designed for 2:12 or greater sloped roof applications subject to the effects of ice damming and wind driven rain. TITANIUM[®] PSU-30 rubberized asphalt delivers a unique combination of both high temperature (240°F / 115°C) flow resistance, and low temperature (40°F / 5 ° C) deck adhesion "ALL TEMP " performance. In addition TITANIUM[®] PSU-30 offers: a patented slip resistant SURE-FOOT[™] nodular walking surface; a tough, durable, reflective gray synthetic polymer surface; a 3 month UV exposure rating; and an industry leading 30 year limited warranty!

Unlike other brands with multiple roll offerings for different roof types, a single TITANIUM[®] PSU-30 product can be used under all types of roofing materials such as metal, tile, shake, slate and composition shingles. Used in conjunction with TITANIUM[®] UDL-30 synthetic roofing underlayment, these 2 products (UDL-30 & PSU-30) offer the sloped roofing category a unique combination of safety, security and simplicity.

TITANIUM[®] PSU-30, with its unique construction, provides superior performance in use. Its unique rubberized asphalt formulation helps to prevent buckles and wrinkles when exposed to temperature and moisture variations on a roof. TITANIUM[®] PSU-30 is also granular surface free. Loose granules can become a safety hazard, score the underneath of metal roofing systems, and track underneath footing causing damage to metal roofing systems. Granular surfaced membranes also deliver inferior seam overlap strengths and integrity; a critical issue for ice damming and wind driven rain protection.

TITANIUM[®] PSU-30 possesses a lap seal system which forms an impervious asphalt to asphalt bond at overlapping seams, delivering superior waterproof protection. In addition, the revolutionary patented SURE-FOOT[™] nodular walking surface provides increased worker safety in wet and dusty conditions. TITANIUM[®] PSU-30 delivers all this technology in one product! No need for multiple products.

TITANIUM[®] PSU-30 will continue to protect your high cost, long life rated primary roofing long after felt has turned to dust!

Watertight lap system

TITANIUM[®] PSU-30's asphalt to asphalt watertight lap system is the ultimate protection against ice dams and wind driven rain.

Safer slip resistance

Our patented SURE-FOOT[™] nodular surface provides excellent walk-ability and slip resistance even in wet or dirty conditions.

Split release liner

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

Strong deck adhesion

TITANIUM[®] PSU-30's modified rubberized asphalt provides a superior combination of low temperature deck adhesion and high temperature flow resistance.

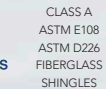


- Watertight asphalt to asphalt lap system
- 30 Year limited warranty
- TITANIUM PSU-30 is an approved POLYFOAM underlayment for use with POLYSET[®] foam systems
- The only modified rubberized asphalt PEEL & STICK with a tough and rugged surface
- Class A Fire ASTM E108
- Meets and exceeds ASTM D226
- All temperature performance -40°F to 240°F (-40°C to 115°C) – Installation temperature 40°F (5°C) and above
- Patented SURE-FOOT[™] slip resistant technology
- Synthetic construction inert to mold growth
- Cool light gray surface, doesn't expand or contract
- Up to 3 Months UV exposure



TITANIUM[®] PSU-30 | SPECS

LENGTH PER ROLL:	72 ft (22 m)
WIDTH PER ROLL:	36 in (0.914 m)
WEIGHT PER ROLL:	48 lbs (22 kg)
NET ROLL SIZE:	2 sq. (20 m ²)
ROLLS PER PALLET:	25
PALLET WEIGHT:	1300 lbs (590 kg)



CLASS A
ASTM E108
ASTM D226
FIBERGLASS
SHINGLES
FBC FL11602.R1
CAN/CSA A220.1

This product is manufactured in accordance with national standards which allow for non-critical variances in weights and measures.



TITANIUM[®] PSU-30 | TECHNICAL DATA

TEST, PROPERTIES & STANDARD	TYPICAL VALUE
Color	Gray
Surface	Synthetic Polymer - Patented SURE-FOOT [™] slip resistant nodular
Release Liner	Silicone treated, poly split release
Weight Per Square	24 lbs / (10.8 kg)
Nail Sealability	Modified ASTM D1970
Permeability	ASTM E96
Nominal Thickness	ASTM D5147
Tensile	ASTM D1970
Thermal Stability	ASTM D1970
Low Temp Flexibility	ICC AC 48
Tear Resistance	ASTM D1970
Adhesion to Plywood	ASTM D903
	Pass
	0.0336
	45 Mil (1.1 mm)
	MD 100 lbs/in/ (17.5 kN/m) CD 80 lbs/in (14 kN/m)
	240° F (115° C) Pass
	Pass
	MD 140 / CD 100 lbf (622/445 N)
	4 lb/in (700 N/m)

Test data is based on average taken over several production runs and should not be considered or interpreted as minimum or maximum values. Values are typical data and not limiting specifications. All values ± 10%

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