

# POLYSTICK® TU PLUS

## SELF-ADHERED REINFORCED WIND & WATER TILE UNDERLAYMENT

### PRODUCT DESCRIPTION

Polystick TU PLUS is a self-adhered, dual reinforced waterproofing underlayment designed for use in adhesive foam or mechanically fastened roof tile applications. Utilizing ADESO® dual-compound self-adhered technology, Polystick TU PLUS features a UV resistant polymer modified bitumen plastomeric upper compound and a proprietary self-adhesive SBS (elastomeric) compound on the bottom. A split release film that protects the self adhesive compound allows for easy application.

TU PLUS features dual reinforcement consisting of an internal fiberglass mat and a superior polyester reinforced surface fabric. This reinforcement combination creates a robust membrane that provides puncture resistance to heavy tiles and deck and substrate imperfections. The top surface is engineered for both slip resistance and tile stacking.

Polystick TU PLUS features patented SEAllap® factory applied adhesive treatment at the membrane overlap which provides a quick watertight bond.

Although Polystick TU PLUS is designed as an underlayment for clay and concrete tile coverings, this membrane can also be installed under slate tiles. This product is suitable for the high temperature environments (up to 265°F) under tile, metal, and other roof coverings. Polystick TU PLUS can be installed as part of a multi-ply underlayment system when used over Polystick MTS PLUS.

### TYPICAL APPLICATIONS

- Adhesive set and mechanically fastened roof tile applications.
- Can be used as part of a multi-ply underlayment system over Polystick MTS PLUS.
- Robust membrane provides puncture resistance to heavy tiles, substrate imperfections; ideal for re-roofing applications.

### FEATURES AND BENEFITS

- Patented ADESO dual-compound self-adhered technology.
- Patented SEAllap factory-applied adhesive for fast watertight seams.
- Dual reinforcement provides added puncture resistance.
- Polyester mat surface engineered for slip resistance and strong foam set adhesion.
- Strong foam adhesive bond to top fabric & aggressive self-adhered bottom surface for increased wind-uplift resistance.
- Asphaltic compound provides excellent sealability around nails.
- Up to 12 month exposure (mechanically attached roof covering). Up to 6 month exposure (adhesive set roof covering).\*

### TECHNICAL DESCRIPTION\*\*

Physical Properties	ASTM Method	ASTM Value
Maximum Load, Longitudinal and Transverse, min, kN/m [lbf/in.]	D5147	4.4 [25]
Elongation at break, min of modified bitumen portion [%]	D5147	10
Tear Resistance, Longitudinal and Transverse, min, N [lbf]	D5147	89 [20]
Moisture Vapor Permeability, max, perms	E96	0.1
Adhesion to Plywood @ 40°F, min, lbf/ft width	D1970	2.0
Adhesion to Plywood @ 75°F, min, lbf/ft width	D1970	12.0
Sealability around nail	D1970	pass
Waterproof integrity after low temp flexibility	D1970	pass
Waterproof integrity of lap seam	D1970	pass
Slip Resistance	D1970	pass

\*Refer to local codes, listings, or requirements of the AHJ. Codes supersede Polyglass requirements and recommendations. Florida Building Code Approval for exposure beyond 6 months is pending.

\*\* The properties in this table are "as manufactured" unless otherwise noted.

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### PRODUCT DATA\*\*\*

Net Coverage (Approx) ...200 ft<sup>2</sup> (18.5 m<sup>2</sup>)  
 Gross Coverage ..... 215 ft<sup>2</sup> (20 m<sup>2</sup>)  
 Weight (Approx) ..... 79 lbs (36 kg)  
 Thickness (Nominal) ..... 80 mils (2.0 mm)  
 Roll Size ..... 65'8" x 39 3/8" (20 m x 1 m)  
 Rolls/Pallet.....25

\*\*\*All values are nominal at time of manufacturing

### APPLICABLE STANDARDS

- ASTM D1970
- UL Classified
- ICC ESR-1697
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance



### PRODUCT CODES

- PSTUPLQ

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### APPLICATION INSTRUCTIONS

- Polystick TU PLUS may be applied directly to the roof deck where allowable by Code, or to various approved substrates such as ASTM D226 type roofing felts and Polytherm insulation. For additional substrate requirements and information refer to Polyglass published "Suitable Substrates for Self-Adhered (SA) Membranes."
- Do not apply directly on to existing shingles or other roof coverings.
- Apply only when the substrate is dry and project related temperatures (air, roof deck, membrane) are 40°F and rising.
- Cut the Polystick TU PLUS to a suitable, workable length prior to placement.
- Lay the material flat in place, starting at the lowest point. Overlap seam 3" covering the entire "Nail Area" up to the guide line and a minimum 6" at end laps.
- Peel half of the release film from the roll and apply firm, even pressure from the center to the outer edge. Remove the backing from the remaining half of the roll and apply pressure.
- Be sure to follow all local building code recommendations and requirements with regards to the width of ice dam materials.
- If full roof coverage application is desired, proper venting of the structure is recommended. Consult a design professional for proper venting requirements. Applications involving nonventilated attics or sheathing with radiant barriers, an anchor sheet is recommended to allow venting and prevent the creation of a double vapor barrier condition.
- In steep slope applications where back nailing may be recommended, be sure that all nails are covered by the overlapping next sheet.
- Polystick TU PLUS must be covered within 6 months of installation (adhesive set roof coverings) or 12 months (mechanically attached roof covering) or unless otherwise limited by the Authority Having Jurisdiction.
- Use PolyPlus® 50 or PG 500 to seal all end laps, hip and ridge details, and any "fabric to fabric" splices, patches or details.
- Apply a bed of cement on any metals, vents, stacks, chimneys, and other roof accessories.
- Use on any repairs to the underlayment prior to application of the final roof covering.

### MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

### CORPORATE HEADQUARTERS

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**Product Disclaimer:** Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 1 year.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

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