# 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

- Over multiple substrates: approved plywood/OSB, felts, insulation and Polyanchor HV*
- 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

- Exposure time up to 360 days*.
- 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 and aggressive self-adhered bottom surface for increased wind-uplift resistance.
- Asphaltic compound provides excellent sealability around nails.

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


ADESO SELF-ADHERED TECHNOLOGY

### PRODUCT DATA***

Net Coverage (Approx) ...200 ft² (18.5 m²)
Gross Coverage ..... 215 ft² (20 m²)
Weight (Approx) ..... 79 lbs (36 kg)
Thickness (Nominal)..... 80 mils (2.0 mm)
Roll Size .....65'8" × 39⅜" (20 m × 1 m)
Rolls/Pallet.....25

***All values are nominal at time of manufacturing

### APPLICABLE STANDARDS

- ASTM D1970
- UL Classified
- ICC ESR-1697
- FORTIFIED Roof™ Compliant
- 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 Polyanchor HV nailable anchor sheet 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.
- 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 non-ventilated 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 required, be sure that all nails are covered by the overlapping next sheet.
- Polystick TU PLUS must be covered within 360 days unless otherwise limited by the Authority Having Jurisdiction.
- Use PolyPlus® 50 or PG 500 modified cement to to seal all non-factory laps, hip and ridge details, splices, patches or other condition where the backside adhesive compound laps onto fabric or granule surfaces.
- 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.
- Check project details for proper installation requirements.

### MEMBRANE INSTALLATION

- Cut the Polystick TU PLUS to a suitable, workable length prior to placement.
- Lay the material flat in place starting at the lowest point
- Fold the membrane back onto itself (width wise) and peel half of the release film from the roll. Gradually push/roll the material into place with firm even pressure from the center to the outer edge. Repeat this process with the remaining half of the roll.
- Position successive rolls providing a minimum 6" end lap and 3" side lap. Position the next sheet by overlapping seams which must line up with the guideline at the bottom of the nail area printed on the Polystick TU PLUS surface.
- At side overlaps, remove the protective SEALLap release film and apply even pressure to seam area.
- After adhering the Polystick underlayment, uniform pressure must be applied to the entire surface. Roll area with a 35 lbs or 75 lbs weighted roller, or water-filled lawn roller. Brooming the surface of the Polystick membrane is also acceptable on steep pitched roof applications where safety is a concern. **NOTE:** Polyglass advises that proper safety precautions are taken during rolling on all sloped roofs.
- For detailed drawings and recommended installation procedures of typical roof segments, such as drip edge conditions, please refer to our website at, www.polyglass.us

### MANUFACTURING FACILITIES

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

### CORPORATE HEADQUARTERS

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**Questions?** technical@polyglass.com

**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.

Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data and warranty information, visit www.polyglass.us.

This product is qualified for use as a component of a FORTIFIED-eligible roof system. Use of this product does not guarantee a FORTIFIED™ designation. To be eligible for a FORTIFIED designation, a complete roofing system (components and accessories) must meet the requirements detailed in the FORTIFIED Home™ Standard and be installed by a certified FORTIFIED Roofing Contractor. Products that are required to meet the standard include but may not be limited to: roof coverings, attic ventilation components, a qualified sealed roof deck system, roof underlayments, edge metal and appropriate fasteners for all mechanically fastened components. Documentation for all products and their installation is required. Additional requirements, eligibility criteria and restrictions apply. See the current FORTIFIED Home standard at https://fortifiedhome.org/technical-documents/ for details.

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