

# POLYSTICK® TU MAX

## SELF-ADHERED WIND & WATER TILE UNDERLAYMENT

### PRODUCT DESCRIPTION

Polystick TU MAX is a self-adhered waterproofing underlayment designed for use in adhesive foam or mechanically fastened roof tile applications. Utilizing ADESO® dual-compound self-adhered technology, Polystick TU MAX features a polymer modified bitumen 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.

Polystick TU MAX features a tough polyester reinforced surface fabric which is skid resistant and provides proven foam set adhesion. The combination of aggressive self-adhesive bottom surface and strong bond of foam to the top surface provide strong resistance to wind uplift and seals the roof from wind-driven rain. In mechanically attached systems, the asphaltic compound provide sealability around nails. This product is suitable for the high temperature environments under tile and other roof coverings.

Polystick TU MAX is a flexible membrane allowing it to lay flat with ease, increasing install speed. This product features patented SEALap® factory applied adhesive treatment at the membrane overlap which provides a quick watertight bond.

Although Polystick TU MAX is designed as an underlayment for clay and concrete tile coverings, this membrane can also be installed under slate tiles. 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.
- As part of a multi-ply underlayment system over Polystick MTS PLUS.
- Flexible and lay-flat characteristics; ideal for new construction applications.

### FEATURES AND BENEFITS

- Patented ADESO dual-compound self-adhered technology.
- Patented SEALap factory-applied adhesive for fast watertight seams.
- Polyester reinforced surface engineered for slip resistance and strong foam set adhesion.
- Strong foam adhesive bond to top fabric and aggressive self-adhered bottom surface increase wind-uplift resistance.
- Asphaltic compound provides excellent sealability around nails.
- Max 180 days exposure.

### 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       |

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



### 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) ..... 55 lbs (25 kg)  
Thickness (Nominal) ..... 60 mils (1.5 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
- ICC ESR-1697
- FORTIFIED Roof™ Compliant
- Florida Building Code
- Miami-Dade County Approved
- Texas Department of Insurance



### PRODUCT CODES

- PSTUMAXQ



www.polyglass.us

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### APPLICATION INSTRUCTIONS

- Polystick TU MAX may be applied directly to the roof deck where allowable by Code, or to various approved substrate 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 MAX 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 to lineup the overlap of the top sheet edge with the inside of the bottom sheet's factory selvage edge.
- 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.
- 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 MAX must be covered within 180 days of installation 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.
- Check project details for proper installation requirements.
- 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](http://www.polyglass.us)

### MANUFACTURING FACILITIES

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

### CORPORATE HEADQUARTERS

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Technical Service:

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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.

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](http://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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