



Roll Size<sup>3</sup> : 3' x 67'

SELF ADHERED HT SYNTHETIC UNDERLAYMENT



MAXTACK® PSU-50 INSTALLATION INSTRUCTIONS

PRODUCT OVERVIEW

MAXTACK® PSU-50 is a premium, high-temperature, self-adhered underlayment designed to serve as a secondary water barrier beneath various steep-slope roofing systems (**2:12 or greater**). Suitable for use under asphalt shingles, synthetic shingles, metal roofing, concrete and clay tiles, slate, and primed cedar shakes. MAXTACK® PSU-50 is a vapor and air barrier that serves as a secondary water barrier to the primary roof covering. Proper ventilation is required when installing MAXTACK® PSU-50 over the entire roof deck. Ventilation requirements of local building codes, roof covering manufacturers, the Asphalt Roofing Manufacturer's Association (for asphalt shingles), the Tile Roof Institute (for clay or concrete roof tiles), and the Metal Roofing Alliance (for metal roof panels) should all be adhered to.

STORAGE AND HANDLING

- Store rolls upright in original packaging in a clean, dry, and well-ventilated area.
- Avoid exposure to direct sunlight and temperatures above **90°F (32°C)** for prolonged periods.
- Maintain product temperature above **40°F (4.4°C)** prior to installation in cold weather.
- For optimal performance, use the product within **12 months** of purchase.
- Keep away from flames, sparks, and other ignition sources.
- Should the product be exposed to temperatures exceeding **100°F (38°C)** or prolonged direct sunlight prior to use, it should be temporarily moved to a shaded area to cool before removing the release liner. Elevated temperatures may impede clean liner separation or precise membrane placement.

SURFACE PREPARATION

- Deck must be structurally sound, clean, dry, and free of dust, debris, or sharp protrusions.
- Remove all the old roofing materials before installation.
- Replace any damaged, delaminated, or rotted decking.
- Acceptable surfaces include clean and dry wood decking (e.g., plywood, OSB) and compatible roof deck types typically used in steep-slope construction.
- For open plank decks, overlay with a minimum of **1/4" plywood or OSB** sheathing.

INSTALLATION CONDITIONS

For best results, MAXTACK® PSU-50 should be installed when ambient and surface temperatures are **above 40°F (4.4°C) and rising and below 100°F (38°C)**. This recommended temperature range promotes optimal adhesion, handling, and field performance.

**Cold Weather Installation:** When installation occurs at temperatures below **40°F (4.4°C)**, primer is required. In addition, the selvage edge lap area should be mechanically fastened using the nail marks provided. It is recommended to use **1" roofing nails** (or longer) with a **3/8" head** in this application.

**Hot Weather Installation:** If installation occurs at temperatures greater than **100°F**, it is recommended to use the same blind nailing practices as mentioned above in the cold weather installation section.

APPLICATION INSTRUCTIONS FOR 2:12 AND GREATER

Preparation

- Cut material into manageable lengths (**15–20 ft.**)
- Allow material to relax for **3–5 minutes** before applying.

Installation Start Point

- Install MAXTACK® PSU-50 in all valleys prior to application along the eaves.
- Then, lay the sheet horizontally along the eaves with the printed side facing up. The selvage edge should be positioned at the top of the course, not the lower edge.

Drip Edge Integration

- It is suggested that MAXTACK® PSU-50 be applied over the metal drip edge at the eaves and under the metal drip edge at the rakes. However, always follow applicable local codes and the roof covering manufacturer's instructions, including all edge termination and finishing requirements.

Adhesion

- Slowly remove the release liner while pressing the membrane onto the surface.
- Apply firm hand pressure during placement. It is recommended to roll the membrane using a **40 lb** roller to ensure uniform adhesion, especially at overlaps.

Overlaps

- **Horizontal laps:** Minimum **3 inches**
- **Vertical laps:** Minimum **6 inches**
- Stagger end laps a minimum of **6 feet** between courses.

Valleys & Ridges

- Install membrane from the valley center and work outward. Start application at the low point and work upward.
- Roll width should remain intact, which should give **18 inches** of coverage on each side of the valley.
- Ensure full contact with the deck (no bridging).
- If an overlap is required in a valley, be sure to overlap by at least **4 inches**.

Steep-Slope Adjustments

- For slopes **6:12 or greater**, blind nailing lap area (as outlined above in Cold Weather/Hot Weather Installation) is recommended.

METAL ROOF INSTALLATION

- Standard installation instructions apply on slopes **2:12 or greater**.
- Standing seam metal roof panels may be used on slopes **1/2:12 to <2:12**. Use standard installation instructions with the following modification:  
Apply a **6-inch-wide bed** of ASTM D4586 compliant roof cement at end laps. The roof cement should be applied on top of the underlying piece. Then, apply firm pressure on the entire end lap, once the overlying piece is placed, to ensure adhesion.

TILE ROOF INSTALLATION

Proper attic and roof deck ventilation is essential when using MAXTACK® PSU-50 under tile systems. Consult a design professional and local building codes for specific ventilation requirements. In addition, always refer to the tile manufacturer's recommendations regarding ventilation to ensure compatibility with their system. When staging or loading roof tiles, care must be taken to avoid excessive point loading on the underlayment. For typical installation conditions, refer to the table below for guidance on maximum allowable stacking. If loading tiles beyond the values shown or for prolonged staging, install temporary battens to protect the membrane and distribute weight. All fasteners used for temporary support must be removed, and holes patched with membrane prior to roof completion.

Guidelines for Tile Loading Over MAXTACK® PSU-50

Stacking Pattern      Tile TypeMaximum Roof Pitch

10 tiles in linear rowFlat      5:12

10 tiles in linear rowProfiled 6:12

*Note: For loading practices outside these parameters, consult the tile manufacturer and consider additional support systems.*

COMPATIBLE ROOFING MATERIALS

MAXTACK® PSU-50 is compatible with steep-slope roofing systems including:

- Asphalt shingles
- Synthetic shingles
- Metal panels and shingles
- Concrete and clay tile
- Slate
- Primed cedar shakes

*Note: Ensure all roofing materials are installed in accordance with their respective manufacturers' recommendations and local building codes.*

REPAIRS

For holes, tears, or fastener removal:

- Use a rounded patch extending at least **6 inches** beyond the damaged area in all directions.
- Apply heavy hand pressure or roller to ensure full bond.

PRECAUTIONS & SAFETY

- Do not install roofing over wrinkled, torn, or poorly adhered areas.
- Ensure covered spaces and attic areas are properly ventilated.
- Use OSHA-compliant fall protection and personal protective equipment.
- Avoid walking on the membrane in wet, icy, or dusty conditions. Always remove release liner promptly from the roof surface.
- Underlayment installed in accordance with the provisions of FBC Sections 1507 and 1518.

TECHNICAL SUPPORT

For additional product details or installation support, please contact Max Roofing Products @ 855-MAXFELT.

MAXTACK® PSU-50

*Premium High-Temperature Self-Adhered Underlayment  
Engineered for Superior Roof Protection*

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