

**GSPPro****Ice & Water Protection**
Self-Adhered Shingle Underlayment

GSPPro Ice & Water Underlayment Installation Instructions

TopShield® GSPPro Ice & Water Self-Adhered Shingle Underlayment may be applied directly to plywood, OSB (only where allowed by local code), and wood planks (non-chamfered edges). Concrete, masonry, or gypsum sheathing require primer before the underlayment can be adhered. **TopShield® GSPPro Ice & Water** is designed specifically for application under Asphalt Shingle roof coverings. Apply **TopShield® GSPPro Ice & Water** underlayment when the deck is dry, and air temperature is between 40°F and 120°F.

Deck Prep:

- **New Construction:**

- Sweep any dust, dirt, or debris from the roof deck. Ensure any nails or sharp protrusions are made flush with the decking surface. Priming is not required for attachment to wood surfaces. Prime all non-wood surfaces with an ASTM D41 primer or a water-based equivalent prior to application.

- **Reroof:**

- After removing shingles or existing metal roof, roofing felts, nails, and fasteners from area to be covered with the **TopShield® GSPPro Ice & Water**, replace water-damaged sheathing and sweep roof deck thoroughly. Priming is not required for attachment to wood surfaces. Prime all non-wood surfaces with an ASTM D41 primer or a water-based equivalent prior to application.

WARNING: TopShield® GSPPro Ice & Water Underlayments can be used over kiln-dried wood substrates. However, caution should be taken when applying directly to wood plank roof decks due to high concentrations of resin or “pitch” that can naturally bleed out of wood boards. As a result, direct contact of the underlayment and wood planks may cause deterioration of the underlayment. Softening, flowing, and dripping of the asphalt compound may occur, which can cause staining to the fascia, gutters, and building exterior. **TopShield®** is not responsible for any damage caused by incompatibility of materials.

Installation

- **Valleys, Hips, and Ridges**

- Cut the material into 10' - 20' pieces.
- Starting at the bottom of the valley, center the underlayment in the valley extending flush to the drip edge.
- Fold the underlayment in half and remove one half-width of the release film.
- Fold the underlayment into place, taking particular care to bond to any existing substrate. Use care to keep the sheet straight to avoid wrinkling. Press underlayment from the middle first before working towards the edge to eliminate bubbles.
- Fold back the other half of the material on the other side of the valley and remove release film. **Repeat Step 4.**
- Continue up the valley, overlapping previous underlayment sheets a minimum of 6". Be sure that the underlayment extends past the valley peak.

- **Eaves and Rakes**

- Install a drip edge if required. At the eave, install drip edge prior to installing **TopShield® GSPPro Ice & Water**. At the rake, install the underlayment prior to installing drip edge.
- Pre-cut the underlayment roll into 10' – 20'. Use care to keep the sheet straight to avoid wrinkling.
- Align the underlayment flush to the drip edge.
- Remove the top piece of release film and allow the underlayment to roll down towards the edge of the roof. Position without blisters or wrinkles.
- After positioning the top half of the sheet, bond this portion to the substrate using a weighted 90lb roller.
- Pull the underlayment back up and remove the remaining half of the release film and bond the lower half of the sheet with the 90lb roller, ensuring the course is applied in a smooth, wrinkle free fashion.

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- It is good practice to back nail every 12" in the selvage lap areas with 1" diameter tin or plastic cap nails.
- Continuing across the roof, install the next and any courses of material in the same manner. Adjacent sheets must be installed with a 6" end lap. All **TopShield® GSPPro Ice & Water** are manufactured with a 3" selvage edge. Bond each top lap in this provided selvage area.
- For additional protection, a 1/4" – 3/8" wide bead of ASTM D4586 roofing cement can be applied along the entire end lap and firmly rolled with a hand roller or 90lb roller.
- If the installation is not a full deck coverage application, install the self-adhered underlayment up the roof to a point at least 24" past the interior warm wall.

Note: Steep Slope Installations

- Where roof slopes exceed 8:12, consider installing the underlayment in the vertical direction rather than horizontal. This allows for easier, wrinkle free installation.

Note: Release Film Removal

- To improve release in warm weather, turn the underlayment over so that the white release film side faces upward, and the walking surface side is face down to the roof deck. If roof deck temperatures exceed 160F, the release film can become difficult to remove. Before removing the release film in cold weather, the walking surface side of the product should face upward. This will allow the product to warm and relax faster in these temperatures.

Note: Cold Weather Application

- Regardless of substrate, in environments where the roof deck, material, and air temperatures will not rise above 40F during any point of the installation, an ASTM D41 primer or water-based equivalent is **required** for installation. Failure to let the underlayment relax and warm prior to installation will result in poor adhesion performance. Do not install any self-adhered roofing membrane on a damp roof deck.

Note: Application over OSB Decking

- While **TopShield® GSPPro Ice & Water** can be adhered to OSB decking, special care must be taken when installing over OSB. Ensure the deck moisture is below 6% at the time of installation. Ensure decking is securely clipped and fastened to supporting framing. Excessive OSB spans will cause sag in the roof deck causing ripples to telegraph through to the roof coving. Rippling following the OSB decking joints is not covered under our material warranty.

Note: Solvent Based Adhesives/Primers

- The application instructions for this product may require the use of adhesives or cements that contain solvents. Apply these adhesives/cements **ONLY** as instructed. Application of excess solvent-based adhesives or cements may affect the performance of this product, resulting in the asphalt flowing, dripping, and staining.

Note: Florida Building Code Requirements

- For Florida Building Code (FBC) installations, the underlayment must be installed in accordance with the provisions of Sections 1507 and 1518 of the FBC.

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information

