A Proven Physical Barrier Against Formosan Termites and Moisture Vapor
**UNDER-SLAB INSTRUCTIONS:**

1. Pango Wrap can be installed over an aggregate, sand, or tamped earth base. It is not necessary to have a cushion layer or sand base, as Pango Wrap is tough enough to withstand rugged construction environments.

2. Unroll Pango Wrap over the area where the slab is to be placed. Pango Wrap should completely cover the concrete placement area. All joints/seams should be overlapped a minimum of six inches and taped using Pango® Tape. (Fig. 1)

   **NOTE:** The area of adhesion should be free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive tape. Ensure that all seams are taped with applied pressure to allow for maximum and continuous adhesion of the pressure-sensitive Pango Tape.

3. ASTM E1643 requires sealing the perimeter of the slab. Extend vapor retarder over footings and seal to foundation wall, grade beam, or slab at an elevation consistent with the top of the slab or terminate at impediments such as waterstops or dowels. Consult the structural engineer of record before proceeding.

**SEAL TO SLAB AT PERIMETER AND TERMINATING EDGES* OF PANGO WRAP WITH PANGO CLAW®:** (Fig. 2)

**NOTE:** Clean the surface of Pango Wrap to ensure that the area of adhesion is free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive adhesive.

   a. Install Pango Claw on the entire perimeter edge of Pango Wrap.

   b. Prior to the placement of concrete, ensure that the top of Pango Claw and all terminating edges are free of dirt, debris, or mud to maximize the bond to the concrete.

* Terminating Edge - Anywhere Pango Wrap stops in the interior area of the slab. Example: Interior footings or grade beams if they exist.
4. In the event that Pango Wrap is damaged during or after installation, repairs must be made. Cut a piece of Pango Wrap to a size and shape that covers any damage by a minimum overlap of six inches in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using Pango Tape (Fig. 3).

5. IMPORTANT: ALL PENETRATIONS MUST BE SEALED. All pipe, ducting, rebar, wire penetrations and block outs should be sealed using Pango Wrap and Pango Tape (Fig. 4).

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**FIG. 3: SEALING DAMAGED AREAS**

**FIG. 4: PIPE PENETRATION SEALING WITH PANGO WRAP AND PANGO TAPE**

**PANGO WRAP PIPE PENETRATION REPAIR DETAIL:** (Fig. 4)

1. Cut a hole into Pango Wrap such that the membrane fits over and around base of the pipe as closely as possible.
2. Cut a detail patch to a size and shape that creates a six inch overlap on all edges around the void space at the base of the pipe. Cut an “X” the size of the pipe diameter in the center of the film and slide tightly over pipe.
3. Tape the edges of the detail patch using Pango Tape.
4. Construct a pipe collar using Pango Wrap by cutting a piece with width at least 2 inches and length at least 50% greater than the pipe’s circumference. Cut slits half the width of the film, and tightly wrap the collar around the pipe as shown. The previously cut slits will manifest as flanges that lie flat against the horizontal Pango Wrap.
5. Place strips of Pango Tape over the flanges of the collar such that: all edges are secured to the underlying Pango Wrap, and no voids at the base of the collar and the pipe (where the collar transitions vertically) are left uncovered by Pango Tape. Encircle the base of the collar with Pango Tape and continue upward such that the vertical portion of the collar is completely encompassed with Pango Tape. Extend this tape at least an inch beyond the top of the collar onto the pipe itself, or as far as needed to ensure the collar is secured and the Tape completely adhered to the pipe around its full circumference.
**BEAST® CONCRETE ACCESSORIES - VAPOR BARRIER SAFE**

Stego Industries** recommends the use of BEAST vapor barrier-safe concrete accessories, to help eliminate the use of non-permanent penetrations in Pango Wrap installations.

- **BEAST® FOOT FORMING UTILITY**
  Beast Foot, with its engineered peel-and-stick base, allows the use of blunt-end and threaded nail stakes to be used without puncturing the all-important Pango Wrap.

- **BEAST® SCREED**
  Is a fixed-elevation, point-to-point guide screed system designed to replace common wet-screed methods.

- **BEAST® HOOK**
  Is a faster, easier way to set 2x4 overhead screeds. Engineered to be re-used over and over again for maximum value.

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**STEGO INSTALLATION SUPPORT**

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When you choose Stego® Barrier Solutions and products, you gain access to a large nationwide network of full-time technical sales representatives providing unmatched local support and service.

**IMPORTANT: AN INSTALLATION COMPLETED PER THESE INSTRUCTIONS SHOULD CREATE A MONOLITHIC MEMBRANE BETWEEN ALL INTERIOR INTRUSION PATHWAYS AND VAPOR SOURCES BELOW THE SLAB AS WELL AS AT THE SLAB PERIMETER. THE UNDERLYING SUBBASE SHOULD NOT BE VISIBLE IN ANY AREA WHERE CONCRETE WILL BE PLACED.**

**NOTE:** Pango Wrap installation instructions are based on ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs. These instructions are meant to be used as a guide, and do not take into account specific job site situations. Consult local building codes and regulations along with the building owner or owner’s representative before proceeding. If you have any questions regarding the above mentioned installation instructions or products, please call us at 877-464-7834 for technical assistance. While Stego Industries’ employees and representatives may provide technical assistance regarding the utility of a specific installation practice or Stego product, they are not authorized to make final design decisions.

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