

VaporShield100™

LOOSE-LAY MOISTURE BARRIER

FOR INSTALLATIONS OVER CONCRETE FLOORS

General Information

TRAXX VaporShield100 rolled moisture barrier is a loose-lay underlayment for use over concrete floors where high Relative Humidity (RH) or high pH readings are present. It is designed to suppress the upward movement of water vapor and alkalinity from the concrete slab into the finished flooring, which can cause floorcovering damage, emulsification of the floorcovering adhesive, and mold/fungal conditions.

VaporShield100 can be installed over on-grade and below-grade concrete slabs, elevated precast slabs, slabs on metal decks, elevated structural concrete, and lightweight concrete.

Note: TRAXX VaporShield100 is not designed or warranted for use in resisting liquid water pressure, a condition referred to as Hydrostatic Pressure. Therefore, do not use VaporShield100 where standing or glistening water is present on the slab.

Approved Floor Coverings for use with TRAXX VaporShield100™ Moisture Barrier

Carpet Tile	Static Dissipative/ Conductive Tile
Vinyl Composition Tile (VCT)	Engineered Wood (Floating/Direct-Glue)
Luxury Vinyl Tile (LVT)	Solid Wood over Sleeper Floors
Luxury Vinyl Planks (LVP)	Solid Vinyl Tile (SVT)

TRAXX VaporShield100 has been approved for use with the large variety of floorcoverings stated above to suppress moisture vapor in concrete slabs. It is the responsibility of the contractor or architect to ensure that the specified floorcovering is dimensionally stable. If you have a floorcovering not on this list, please contact TRAXX Corporation for specific installation advice. For Sheet Vinyl or Ceramic Tile installations, it is recommended to use TRAXXShield100 Rolled Moisture Barrier, due to its peel-and-stick installation method.

I. Moisture Testing on the Concrete Slab

- TRAXX VaporShield100 can suppress 100.0% Relative Humidity and pH of 12. It is required to perform RH testing for documentation of the installation, and it must be conducted in accordance with the latest version of ASTM F2170, *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*.

II. Preparing the Concrete Slab

1. The concrete slab must be free from contamination of oils and solvents, as this condition could cause damage to VaporShield100. Oils and solvents must be removed before flooring installation. Contact TRAXX Corporation if contaminants are suspected, or when chemical abatement of old flooring has been performed.
2. In cases where residual adhesive is present, the concrete surface must be scraped and the adhesive removed. TraxxShield Primer can be used over cutback adhesive residue after scraping. Do not use solvent-based adhesive remover chemicals, as they could contaminate the concrete surface.
3. It is required that the concrete slab is smooth and level so that imperfections do not telegraph through the finished flooring. Be sure to patch all cracks and joints which are 1/8" or greater. Use a high-quality, cement-based patch/leveling compound which is warranted by the manufacturer for high moisture applications. All patching materials must be cured and surface-dry before installing VaporShield100.
4. Upon completion of preparing the concrete slab surface, it should be dry, smooth, clean, and structurally sound within the finished flooring manufacturer's specifications.

III. Installing TRAXX VaporShield100 Rolled Moisture Barrier

1. Per the floorcovering manufacturers' instructions, finished floorcovering requires at least 48 hours of acclimation in order to minimize expansion and contraction after installation. Do not install floorcovering until proper acclimation occurs.
2. In planning your laydown of VaporShield100, keep in mind that rolls are 5- feet wide X 144- feet long (720 sq. ft. per roll).
3. First install TRAXX 4-inch Double-sided Tape along chalk lines on the concrete slab at 5 foot spacing. This is where the seams will lay. Also apply the tape at doorways, transitions, and around pillars to hold the VaporShield100 membrane in place. Keep the top liner of the tape in place until the VaporShield100 rolls are laid into place. Be sure there are no wrinkles or bubbles in the tape. Plan 2 rolls of double-sided tape for each roll of VaporShield100 membrane.
4. Roll out the first run of VaporShield100 net fit to the wall in manageable lengths – roughly 30-feet maximum. The smooth poly-coated side will lay face-down on the slab.
5. Position this first roll over the center line of the double-sided tape.
6. Roll out the second run and lightly butt the first run at the seam. Remove the top liner of the double-sided tape while at the same time setting the VaporShield100 membrane into the tape. Continue the process for each roll, and roll all seams with either a hand roller or 75-lb. roller. Be sure seams do not overlap, and that no bubbles or wrinkles appear in the rolling process.
7. Now apply the TRAXX 2-1/2" seam tape at the surface holding the seamline together. Run the tape along the entire length of the seam allowing no gaps and no wrinkles. Hand roll tape to ensure it properly sets. Plan 1 roll of tape for 1 roll VaporShield100.

8. Be sure that end cuts are staggered so that cross seams are not in line.

IV. Installing the Finished Flooring

1. Follow the finished flooring manufacturer's acclimation and installation instructions.
2. It is highly recommended to **use premium commercial-grade adhesives (Acrylic Pressure-Sensitive, 2-part epoxy, 2-part polyurethane)**.
CAUTION: Clear Thin Spreads have a higher risk of emulsifying when soaked with water and chemicals during cleaning over non-porous substrates.
3. VaporShield100 is a **NON-POROUS** underlayment. Apply the floorcovering adhesive directly onto the VaporShield100 surface according to the Adhesive Manufacturer's trowel recommendations for **NON-POROUS** surfaces.
4. Always use a new trowel.
5. **IT IS STRONGLY RECOMMENDED TO DO A 3-FT. SQUARE TEST USING THE ADHESIVE APPLIED TO VaporShield100 TO TEST THE ADHESIVE COVERAGE AND BONDING OF THE FLOORCOVERING.**
6. For those adhesives requiring a Wet-Set application, always follow the Adhesive Manufacturer's Instructions for NON-POROUS substrates for correct open times to flash off.
7. Do not use solvent-based adhesives.
8. Do not tear or damage the VaporShield100 during the finished flooring installation.
9. Ensure that the seams of VaporShield100 are offset from the seams of VCT, LVT, or SDT tiles. Vinyl planks should be installed at 90 degrees to the VaporShield100 seam pattern.

V. Initial Maintenance & Cleaning of the Finished Floor

Upon completion of finished flooring installation, TRAXX Corporation requires a minimum of 5 days (120 hours) before any cleaning or maintenance. Failure to do so may result in improper drying and curing of the floorcovering adhesive. Longer curing times may be required by the adhesive manufacturer. TRAXX Corporation is not responsible for improper installation of the finished floor, nor cleaning/maintenance performed before curing of the floorcovering adhesive.