

INSTALL *Strataflex Waterproofing Membrane*

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IMPORTANT: Proper installation of this Membrane System requires use of the appropriate Primers and Companion Products. Read and understand Product Data (PDS) and Material Safety Data (MSDS) Sheets for all products prior to installation.

Surface Preparation:

- Refer to PDS for suitable substrates. Surfaces must be level, structurally sound and meet 1/360 for ceramic and porcelain tile or 1/720 for stone tile on live or dead loads. Maximum variation of 1/4" in 10' from the required plane.
- Grind bumps and level slab depressions with a quality latex underlayment in accordance with manufacturer's instructions. Surfaces must be free of holes, projections, moisture or bond breakers. Scarify smooth surfaces.
- Ensure joist spacing consists of no more than 16" on center and a double sub-floor consists of at least 5/8" per sheet.
- Perform a Black Mat MVT (Moisture Vapor Transmission) test. If MVT is present, conduct F-1869-9B test for emissions. Contact NAC for instructions if MVT drive is in excess of 10#/1000SF/24HRS.
- Apply a cementitious parge coat to concrete block and allow to cure before installation.
- Apply 101 Floor Prep to highly porous surfaces such as mud beds, gypsum/gypcrete, lightweight concrete and patching/leveling compounds. Allow 101 Floor Prep to cure 24 hours prior to applying Primer.
- Some backerboards are not suitable for vertical membrane application. A successful overnight Pull Test is required.
- Waterproofing applications with prolonged water exposure or excessive moisture conditions shall be installed over a sloped substrate (1/4" per foot) per TCNA handbook. A flood test is also advisable for these conditions. Installations include but are not limited to shower bases, exterior decks, kitchens, bath areas & over living spaces.

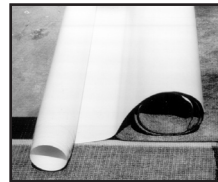
Installation Instructions:

1. All installations begin with a clean, dry floor. Substrates must be well adhered and clean of wax, petroleum sealers, dirt, grease, oil or other bond-breakers.
2. **Membrane layout is critical.** Measure and pre-cut membrane to 4"-6" longer than required size. Re-roll membrane to half the room's depth. For sloped areas, position first sheet of membrane in lowest area with overlap strip on high side. Ascending sheet overlaps strip on first sheet, similar to shingles on a roof. For general application, first sheet is placed with overlap strip toward the center of the room.
3. Apply NAC TAC Interior or NS97 Exterior Primer.
 - **NAC TAC** should be applied with a short nap roller, flat trowel, brush applicator or sprayer. Substrate temperature should be at least 65°F.
 - **NS97** should be applied a short nap roller, notched trowel (no larger than 1/16" x 1/32" x 1/32") or paintbrush. Substrate temperature should be at least 55°F.
 - a. Shake, mix or stir Primer thoroughly.

b. Prime only an area that will be covered by Membrane within four hours. Apply a thin film of uniform thickness to substrate in single strokes. Do not re-roll NAC TAC.

c. Air pockets may form if membrane is installed over wet primer. Allow Primer to dry until tacky to touch, but non-transferable to finger. This may take as little as 10 minutes, but usually no more than 45, depending upon temperature, humidity, internal moisture level/porosity of substrate and application thickness. See NAC TAC or NS97 label for additional information.

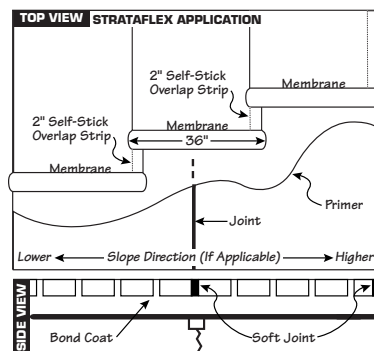
4. Slit white release paper and allow membrane to roll out, adhesive-side down, across primed floor. Do not remove protective film from 2" overlap area on top of membrane.



5. Position next membrane sheet over protective film on first sheet. Remove film and press seam together. Use 6" Seam Tape for butt-jointed end seams and other areas without an overlap strip. Trim Tape to desired length and install 3" beneath and perpendicular to membrane. Overlap remaining 3" with next membrane sheet. Seal termination points with SubSeal or other approved sealant.

6. Press Membrane into place with flat side of trowel applying 50 lbs. of pressure/sq. inch or a 75-100# Roller. If air pockets occur, wait and re-inspect the next day. If they remain, place a small slit in the affected area of the self-healing membrane. Smooth out with a roller or trowel. Trim ends to desired length.

7. Seal cut and perimeter edges with SubSeal. For exterior / wet area applications, seal joints and membrane termination points with 1/4" bead of approved sealant. Smooth out with trowel and allow to cure.



Application: Overlap sides of 36" Strataflex with 2" overlap strips. Butt-joint ends of membrane and install 6" Seam Tape at end seams. Seal termination points with Subseal or approved sealant.

Placement of control joints may be ignored. Isolation joints, such as around weight bearing columns, and expansion joints placed for vertical movement need to be carried through to tile installation. Soft joints in tile patterns are required as per TCNA Handbook.

Base, Wall and Corner Treatment

Turn Strataflex up wall to flood point or plan specification height. Position membrane with desired amount of upturn and crease to provide a tight corner. With membrane still in place and with release paper attached, fold in half lengthwise to face wall. Carefully cut release paper at fold and pull toward you to expose and unroll membrane. Follow same procedure in opposite direction with other half of membrane. Carefully crease membrane at wall with flat side of trowel. Corners may be folded or cut. Seal all cuts with approved sealant and allow to cure overnight.

Waterproof Corners: 6" Seam Tape or membrane may be formed into corners. Lightweight, waterproof preformed inside (PFI) and outside (PFO) corners are also available. See PDS and Install Sheets for information and instructions.

Drains and Protrusions: Apply Strataflex a round drains and place a 1/4" thick x 1" wide bead of SubSeal to cover membrane edges. Allow to cure overnight, then apply Strataflex over a sloped base. Alternatively, 6" Seam Tape may be used. Apply Primer to substrate and interior drain rim, then lay Seam Tape in two 6" butt-jointed lengths centered on the drain. Cut drain hole from center toward edges in wedge shaped pattern. Fold wedges into drain, then apply Strataflex.

In-Floor Heating Systems

Use Strataflex Membrane System, full floor coverage, over in-floor, hydronic heating systems placed in poured gypsum/gypcrete or other lightweight products. Read 101 Floor Prep Product Data and Installation Sheet. Apply NAC TAC Primer or NS97 Primer as required and install Strataflex Membrane as directed. Use A118.4 or better mortar for tile installation.

Tile Warming Systems

Use Strataflex, full floor coverage, over substrates where low-voltage tile warming systems are to be installed. Secure tile warming system to membrane as directed by manufacturer. Use A118.4 or better mortar for tile installation.

Tile Setting Materials

When installing porcelain, ceramic and decorative stone tile or related products, a thin-bed, latex-modified mortar meeting ANSI A118.4 must be used. Apply membrane over level coats, mortar and mud beds. Key setting material into membrane with flat side of trowel. Re-apply mortar with notch side of trowel using minimum trowel size of 1/4" x 3/8". Contact tech support for trowel size when using organic adhesives and epoxy mortars suitable for ceramic tile applications.

Caution:

- Not recommended for use on concrete floors with excessive moisture vapor transmission or excessive hydrostatic head pressure.
- Protect floors from traffic until new floor is fully cured. Large format tile installations may require extended cure times.
- Membrane and companion products must be protected from the elements until tile is installed, grouted and cured.

- NAC must be contacted for special instructions prior to application of a leveler or patching compound to membrane.
- Do not use petroleum-based cleaners or sealers for tile, marble, stone or grout.
- Impervious tile (less than 0.5% absorption) requires a 48 hour cure time prior to grouting.
- Protect floors from heavy construction equipment during installation to prevent damage.

Application Notes for NAC TAC Primer

Coverage: 375-425 square feet per gallon depending upon applicator type and porosity of substrate.

Clean-Up: Remove wet NAC TAC with a damp cloth and plain water. Use Mineral Spirits for dried Primer.

- NAC TAC Primer is not freeze/thaw stable. Do not store below 35°F. If NAC TAC separates, shake to remix. If product will not remix, do not use.
- Due to increased adjustability of Primer bond to Membrane, a pull test, if needed, should be delayed 24 hours. A permanent bond is established in 48 hours.

Application Notes for NS97 Primer

Coverage: 300-400 square feet per gallon depending upon applicator type and porosity of substrate.

Clean-Up: Tools, equipment and spillage may be cleaned up with Mineral Spirits.

Spill or Leak Procedures: Contain spill if possible. Wipe up or absorb with suitable material and shovel up. Prevent entry into sewers and waterways.

- Do not use over copper shower pan liners. Application equipment must be compatible with chlorinated solvents. Avoid contact with aluminum, copper, copper alloys or polystyrene foam. May damage painted surfaces, vinyl and plastics. Test a small area for damage before use.
- Make sure the area is well-ventilated. Prevent vapor buildup by providing fresh air to maintain levels below exposure limits. Open windows and doors or use other means to ensure continuous movement of fresh air and cross ventilation during application and drying. Vapor is heavier than air and will collect in low areas. Do not use in basements or other poorly ventilated areas. Wear a NIOSH approved self-contained breathing apparatus or other approved respiratory protection device if use conditions generate vapors at a level in excess of recommended exposure limits.
- Avoid skin contact. Wear gloves. Wear eye protection and side shields. Contact with flame or hot surfaces may produce toxic gases. Do not smoke.

IMPORTANT: See NAC TAC and NS97 Primer labels and MSDS for additional instructions on use, storage and disposal.

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