

Extreme Deck Waterproofing System

Strataflex® Sheet/SubSeal® Liquid Membranes

PRODUCT OVERVIEW

The Extreme Deck Waterproofing system combines stand-alone waterproof membranes, Strataflex sheet and SubSeal liquid, to create a double layer of waterproof protection for decks and balconies especially over a living space.

SUITABLE SUBSTRATES

Substrate must be sloped a minimum of 1/4" per ft. to ensure proper drainage. Refer to TCNA method F103 and/or F104 to for additional guidelines.

Surfaces must be level, structurally sound and meet L/360 for ceramic and porcelain tile or L/720 for stone tile on live or dead loads. Maximum variation of 1/4" in 10' from the required plane.

- **Concrete:** commercial & residential cement, pre-stressed and pre-cast concrete, backer board, mud beds, gypsum, lightweight concrete and patching compounds.
- **Wood:** Plywood, APA-rated sheathing, Sturd-I-Floor, hardwood, tongue and groove and OSB with standard face (gap between sheathing as required). Wood joist spacing should be no more than 16" on center and a double sub floor of at least 5/8" per sheet.
- **Existing Substrates:** Ceramic and porcelain tile, stone, terrazzo, VCT/VAT, metal, radiant heat, painted and sealed floors and floors damaged by dry shrinkage and structural movement. Substrate must be structurally sound.
- **Concrete Block:** When applying to concrete block, a cementitious parge coat is required. Allow to cure before installing membrane.
- Highly porous surfaces, such as mortar beds, gypsum/gypcrete, leveling and patching compounds can be treated with Moisture Lock 101, prior to membrane instalation.
- For moisture issues, conduct an RH (relative humidity) test for emissions. If MVT is in excess of 3#/1000SF/24HRS or has an RH greater than 85%, call NAC for instructions. Moisture Lock 101 may be installed in one or two coats to reduce MVT levels.

SURFACE PREPARATION

1. Substrates must be clean, dry, well adhered and free of wax, petroleum sealers, dirt, grease, oil or other bond breakers.
2. Membrane layout is critical. Measure and precut membrane to 4"-6" longer than required size. Re-roll membrane to half the area's depth. Apply NAC TAC or NS97 Primer (according to application specifications on the primer reference chart) with a short nap roller, brush applicator or sprayer. Substrate temperature should be a minimum of 55°F.
 - i. Shake, mix or stir primer thoroughly.
 - ii. Prime only an area that will be covered by membrane within 1-4 hours. Apply a thin film of uniform thickness to substrate in single strokes. Do not re-roll primer.
 - iii. Allow primer to dry until tacky to touch, but non-transferable to finger. Typically 15-20 minutes, but usually no more than 45 minutes, depending upon temperature, humidity, internal moisture level/porosity of substrate and application thickness. Air pockets may form if membrane is installed over wet primer. When exposed to sunlight, air pockets may occur but will diminish when no longer exposed to sunlight.
 - iv. Coverage: 375-425 square feet per gallon depending upon applicator type and porosity of substrate.
 - v. Clean-Up: Remove wet NAC primer with a damp cloth and plain water. Use mineral spirits for dried primer. NAC TAC

and NS97 primers are not freeze/thaw stable. Do not store below 35°F. If primer separates, shake to remix. If product will not remix, do not use. Due to increased adjustability of primer bond to membrane, a bond test, if needed, should be performed over 24 hours.

- 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 or NS97 primer labels and SDS sheets for additional instructions on use, storage and disposal.

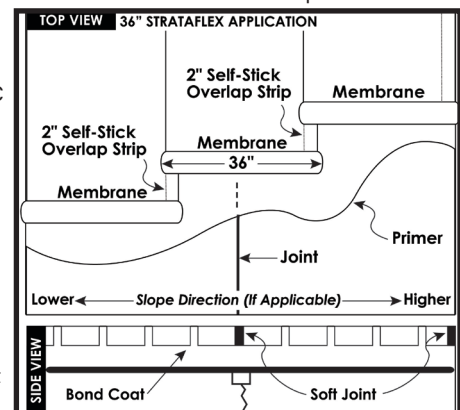
STRATAFLEX INSTALLATION

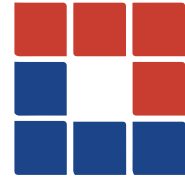
1. Slit release paper and allow membrane to roll out, adhesive side down, across primed floor. Do not remove protective film from 2" overlap area on top of membrane. For sloped areas, position first sheet of membrane in lowest area with overlap strip on high side. Additional rolls shall overlap prior sheets, similar to shingles on a roof.
2. Press membrane into place with the flat side of a trowel, applying 50lbs. of pressure/sq. in.. Remove the rest of the release paper and press the rest of the membrane into place and smooth out with the flat side of a trowel or a 75-100# roller. If air pockets occur, place a small slit in the affected area, smooth out with a roller or trowel and coat with SubSeal Liquid Waterproof Membrane or NAC approved polyurethane sealant.
3. Position next membrane sheet over protective film on first sheet. Remove film and press seams together. Apply pressure with the flat side of a trowel or a 75-100# roller.
 - 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.



Design Details: 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 Liquid Membrane or NAC approved polyurethane 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 method EJ-171.





EXPOSED DECK & BALCONY

For exposed decks and balconies use 6" Seam Tape at the floor-to-wall joint. Flash Seam Tape up the wall 3", install membrane over 3" Seam Tape that is on the floor. If not using Seam Tape, flash membrane up the wall to desired height.

BASE & WALL TREATMENT

Turn Strataflex up wall to flood point or plan height. Position membrane with desired amount of upturn and crease to rovide 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 the same procedure in opposite direction with other half of membrane. Carefully crease membrane at the wall with the flat side of trowel.

CASUAL WATER AREAS

For casual water areas: membrane shall be butt-jointed to the wall and caulked with NAC approved polyurethane sealant or coated with SubSeal Liquid Waterproofing Membrane.

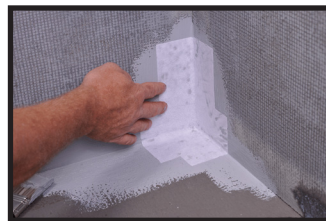
DRAINS & PROTRUSIONS

Follow TCNA recommendations and ANSI standards. Drains are required to have clamping ring to fasten membrane to drain base. A slope of 1/4" per foot must be met prior to installation of membrane to negate standing water.

- i. Remove clamping ring and strainer, leaving the drain base exposed.
- ii. Install Strataflex over drain base per membrane general installation instructions.
- iii. Press membrane in place, making sure to outline drain opening. Assure adequate bond between base and membrane.
- iv. Carefully cut for drain opening and punch holes for clamping ring bolts through membrane.
- v. Reset clamping ring and strainer to desired height. Install thin-set and tile.

SUBSEAL INSTALLATION

1. Installation of SubSeal may begin immediately after Strataflex installation is complete. Once again, substrate temperature should be at least 65°F.
2. Apply a thin coat of SubSeal (about 20 mils wet) over Strataflex with a v-notch trowel (3/16" x 1/4"), rough textured synthetic roller (3/4"), paint brush or airless sprayer at a 45° angle. Use flat side of trowel to flatten ridges to a uniform thickness if necessary.
3. For corner treatment, brush SubSeal into a corner. Press PFI or PFO corner into place with hand, and flatten with margin trowel or flat object. Allow fabric to soak into liquid membrane. Let cure according manufacturer's specification (15 to 30 min).
4. Apply a second coat of SubSeal Liquid Membrane to outer face of corner; assuring full coverage of liquid membrane to the fabric corner.



5. Let membrane cure (approx 60-90 minutes depending on conditions). SubSeal is formulated to change from light gray to dark gray when fully cured and times may vary due to temperature, humidity, internal moisture level, porosity of substrate and application thickness. SubSeal covers approximately 110 sqft per gallon.
6. Install NAC approved Polyurethane Sealant or SubSeal to all termination points of the membrane.
7. Install setting materials & finished flooring surface.

CAUTIONS

- Not recommended for use on concrete floors with excessive hydrostatic head pressure or excessive moisture vapor transmission. Use NAC TAC or NS97 for MVT protection up to 10#/1000SF/24HRS.
- 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 and UV rays until tile is installed, grouted and cured.
- **DO NOT** install membrane under mortar beds or leveling and patching compounds.
- **DO** install membrane over cured mortar beds, leveling and patching compounds.
- Do not use petroleum-based cleaners or sealers for tile, marble, stone or grout.
- Impervious tile (< 0.5% absorption) requires a 48 hour cure time prior to grouting.
- Protect floors from construction equipment during installation to prevent damage.
- Substrate must be properly sloped to prevent standing water.
- Strataflex not recommended for vertical applications. Use SubSeal Liquid Waterproof Membrane in place of sheet membrane.
- Movement joints must be installed in finished tile system per TCNA method EJ171: **Interior:** 20' to 25' in each direction. If exposed to direct sunlight or moisture then 8' to 12' in each direction. **Exterior:** 8' to 12' in each direction.

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 bond 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 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 in direct contact with 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.

See product labels and SDS for additional instructions on use, storage and disposal. Visit www.NACproducts.com or contact NAC at 800-633-4622 with questions and for additional information.



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