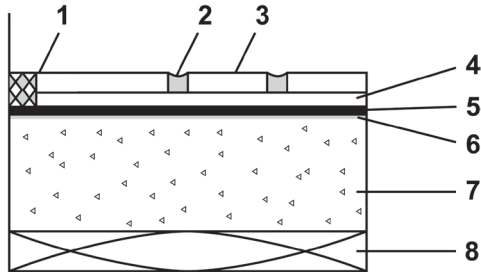


INSTALL SAM³ Sound Abatement Membrane

National Applied Construction Products, Inc. • 800.633.4622 • Fax: 330.644.3557 • www.NACproducts.com

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.

Use w/Sound Rated Ceiling Assembly



1. 1/4" NAC Acoustical Sealant or Optional Sound Perimeter Tape
2. Soft Joint Where Required
3. Ceramic Tile - ANSI A137.1
4. Tile Bond Coat - A118.4
5. SAM³ Membrane
6. NAC TAC Interior Primer or NS97 Exterior Primer
7. Structurally Sound Concrete Sub-Floor
8. Sound Rated Ceiling Assembly

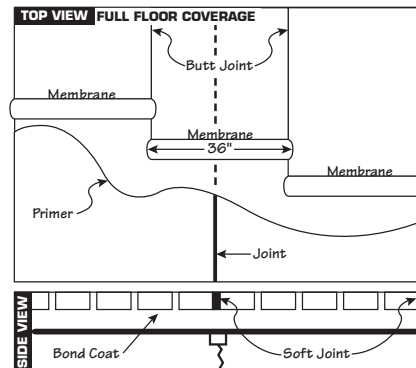
Surface Preparation:

- 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.
- Apply 101 Floor Prep to highly porous surfaces such as mud beds, gypsum/gypcrete, lightweight concrete and patching/leveling compounds. Allow to cure 24 hours prior to applying Primer.
- Some backerboards are not suitable for vertical ECB application. A successful overnight Pull Test is required.

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. Measure and pre-cut membrane to 4"-6" longer than required size. Re-roll membrane to half the room's depth.
3. Apply NAC TAC Interior Primer 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 release paper and allow membrane to roll out, adhesive-side down, across primed floor.
- 5. Press Membrane into place with flat side of trowel applying 50 lbs. of pressure/sq. inch or a 75-100# Roller.



Application: Butt joint 36" SAM³ or overlap and single cut through to remove excess. For end seams, continue with next roll and butt joint ends. Membrane is non-directional.

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 TCA Handbook.

Waterproofing Installation:

Follow membrane installation procedures outlined above and either use 6" Seam Tape below butt joints or apply StrataSeal/SubSeal or other approved sealant over butt joint and trowel flat. Allow sealant to cure for 24 hours prior to installing tile.

In-Floor Heating Systems

Use SAM³ 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 SAM³ Membrane as directed. Use A118.4 or better mortar for tile installation.

Tile Warming Systems

Use SAM³ Membrane, full floor coverage, over substrates where low-voltage tile warming systems are to be installed. Follow SAM³ Product Data and Install guidelines. 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.

Apply soft joint for acoustical seal around perimeter of tile installation. Sound Perimeter Tape may also be used to enhance sound deadening at room perimeter.

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.

NOTES: _____
