

# NAC SAM<sup>®</sup> 3

Sound Abatement Sheet Membrane

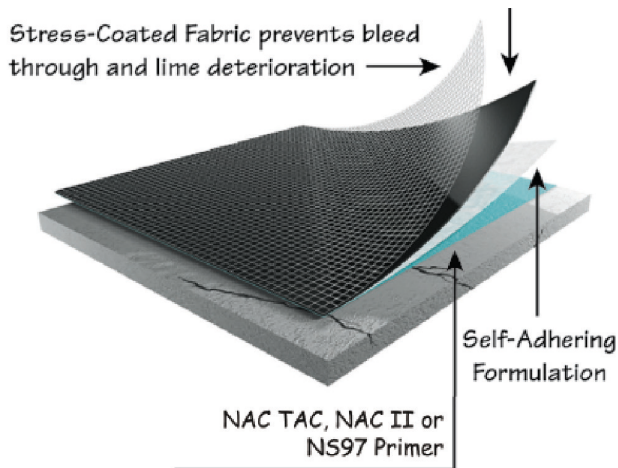
## PRODUCT DATA SHEET

### PRODUCT OVERVIEW

SAM<sup>®</sup> 3 is a versatile, high quality sound control membrane for use in applications that require impact and audible sound reduction, with or without a sound rated ceiling assembly.

The 90 mil thick (< 1/8") self adhering sound deadening sheet membrane, consists of a base layer of polymer modified elastomers permanently laminated to a unique "stress flex" fiber sheet to form a single, high performance, self-bonding membrane.

SAM<sup>®</sup> 3 is designed for surfaces that require impact and audible sound reduction with an Impact Insulation Class (IIC) rating of not less than 50 and a Sound Transmission Class (STC) rating of not less than 50 as determined by ASTM Standards E90, E413 and E492.



SAM<sup>®</sup> 3 substantially reduces reflective cracking and delamination between the substrate and floor surface, protecting up to 3/8" lateral substrate movement. Once applied, floor tile can be installed immediately, minimizing down time and labor cost.

When used with NAC TAC or NS97 primer, SAM<sup>®</sup> 3 will resist Moisture Vapor Transmission (MVT) up to 10#/1000SF/24HRS and 7#/1000SF/24HRS when used with NAC TAC II Primer. SAM<sup>®</sup> 3 will also function as a waterproof membrane when used with an approved urethane sealant.

### FEATURES & BENEFITS

- Suitable for interior and exterior use
- Meets ANSI A118.13, A118.12 and ANSI A118.10
- Protects against reflective cracking and delamination
- Independent Lab Tested - IIC-70 STC-67\*
- Safely covers asbestos flooring and provides an effective barrier against radon and mold
- Eliminates need to cut tile to meet control/cold joints
- No need to remove old floors or recess new ones
- Can be used for thin-bed and medium-bed applications
- Tile can be installed the same day as membrane
- Works with radiant-heated floors and tile warming systems

### INSTALLATION

SAM<sup>®</sup> 3 is recommended for installation under a variety of flooring including, ceramic, porcelain, stone, marble, slate, granite tile, pavers and brick using a thin or medium-bed mortar meeting ANSI A118.4.

Hardwood, manufactured wood, VCT, commercial grade vinyl and other finished floors are also acceptable when floated over membrane or installed with a solvent-free adhesive; check with manufacturer.

Ideal for use with radiant heated floors and low voltage tile warming systems.

### SUITABLE SUBSTRATES

SAM<sup>®</sup> 3 may be installed over a variety of substrates:

**Concrete:** Poured, pre-stressed and pre-cast concrete, concrete backerboard, mud beds, gypsum, lightweight concrete, leveling and patching compounds.

**Wood:** Plywood, APA-rated sheathing, Sturd-I-Floor, hardwood, tongue and groove and OSB with standard face. (Gap between sheeting as required.)

**Other Substrates:** Existing and structurally sound installations of ceramic or porcelain tile, stone, terrazzo, VCT/VAT, metal, radiant-heated, painted and sealed floors and floors damaged by shrinkage and structural movement. A bond test is recommended.

- For absorptive substrates use Moisture Lock 101<sup>®</sup> in accordance with manufacturer's instructions.
- A cementitious scratch coat must be applied to concrete block and cured before priming.
- Substrates must be dry, well adhered, and clean of wax, petroleum sealers, dirt, grease, oil or other bond breakers.
- Some concrete boards are not suitable for the application of SAM<sup>®</sup> 3 Membrane; check with manufacturer.
- Not recommended for vertical or overhead applications.
- Refer to current TCNA handbook for additional guidelines.

### SHORT FORM SPECIFICATIONS

- Material:** Provide SAM<sup>®</sup> 3 Sound Control Membrane as manufactured by:  
 NAC Products, Inc.  
 3200 S. Main St.  
 Akron, OH 44319  
 (800) 633-4622 -www.NACproducts.com  
 or an architect approved equal.
  - 90 mil thick load bearing membrane, capable of 3/8" crack suppression
  - Self bonding, pressure sensitive sheet
  - Compatible with most latex modified thinset mortars, epoxies and adhesives.
 Provide NAC TAC, NAC TAC II or NS97 primer (See primer chart on right). Full floor coverage or material to be installed in a 36" wide strip application over control/saw cut joints as recommended by manufacturer.
- Equipment:** Damp mop, industrial vacuum, chalk line, 75-100# roller or flat trowel applying 50 lbs. of pressure/sq. inch, paint roller applicator or brush, utility knife.
- Warranty:** NAC Products, Inc. offers a range of limited and lifetime performance and materials warranties. Please contact customer service at 800.633.4622 for details or visit NACproducts.com for more information on warranties.

### TECHNICAL DATA

#### SAM<sup>®</sup> 3 Sound Control Membrane

- Thickness:** 90 mil, ±5 mil (2.29mm ±.027mm)
- Seams:** Butt joint application
- Roll Size & Weight:**  
 3' (915 mm) x 50' (15.24 m) @ 82 lb (37.1 kg)
- Shelf Life:** 1 year
- Freeze Thaw:** Stable

Property	Test Value	Test Method
System Crack Resistance	Rated High Performance	ANSI A118.12
Load Bearing, Bonded Waterproof Membrane	Pass	A118.10
Shear/Bond	Pass	A118.12
7-Day Shear Strength	>50 PSI	ASTM C482
7-Day Water Immersion	>50 PSI	A118.13 (5.1.4)
4-Week Shear Strength	>50 PSI	A118.13 (5.1.5)
Robinson Floor Test	Residential	ASTM C-627
Impact Insulation Class	70	ASTM E 492-04
Sound Transmission Class	67	ASTM E 90-04

For full test results, please contact NAC Products, Inc. at 800.633.4622.

NAC Primer Reference Chart						
NAC	Interior Application			Exterior Application		
	Below Grade	On Grade	Above Grade	Below Grade	On Grade	Above Grade
<b>NAC TAC</b>	✓	✓	✓	✓	✓	✓
<b>NAC TAC II</b>		✓	✓			
<b>NS97</b>				✓	✓	✓



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