

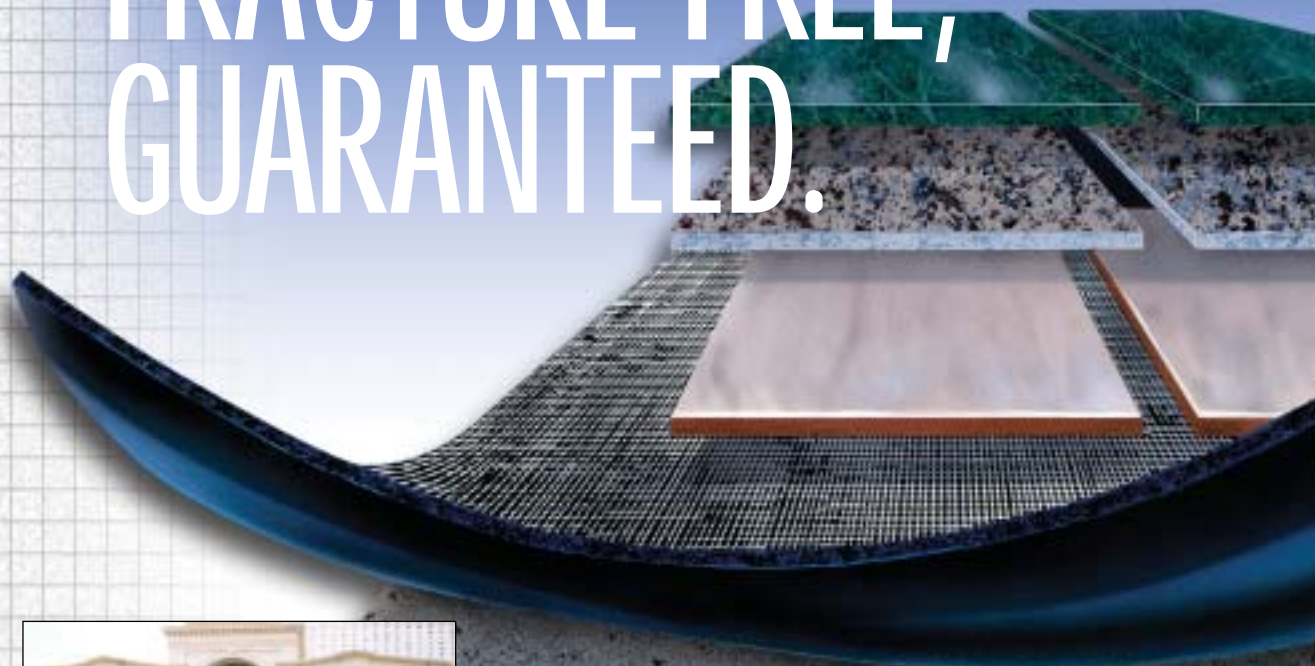
NATIONAL APPLIED CONSTRUCTION PRODUCTS, INC.

Celebrating Our

20th Year!

FRACTURE-FREE,
GUARANTEED.

09305/NAC
BuyLine 6951



Call 1-800-633-4NAC FOR FREE TECHNICAL SUPPORT

VISIT US ON THE WEB AT WWW.NAC-ANTI-FRACTURE.COM

NAC: Leadership Through Innovation

It's been 20 years since National Applied Construction Products, Inc. revolutionized the way tile is installed over subfloors. NAC achieved industry leadership by introducing **ECB**, the first bonded, thinset anti-fracture membrane system ever available.

Since inception, NAC has built a solid reputation for providing reliable solutions to even the most complex floor and wall protection challenges.

NAC's line has expanded to include **Strataflex** for waterproofing, **SAM³** and **Super SAM** for sound abatement. All four membrane systems are backed by free comprehensive technical support and the best warranties in the industry.

NAC's objective is to continue to develop and provide products that are easy to use, cost-effective and capable of withstanding the test of time. The self-adhesive backings reduce installation times, cut labor costs and expedite project completion. Ask for testimonials from well-known architects and contractors to prove it.

When your project demands wall and floor protection membranes you can count on, count on National Applied Construction Products, Inc.

Applied Concepts

NAC systems were developed to protect many surfaces including stone, ceramic, porcelain, commercial-grade vinyl, pavers, and agglomerate marble applied over these subfloors:

Concrete: Concrete backer board, poured, prestressed, precast, gypsum®, lightweight and radiant heated floors.

Wood: Exterior or exposure 1 plywood, APA-rated sheathing or Sturd-I-Floor and OSB with standard face.

Existing Floors: Stone, ceramic and porcelain tile, terrazzo, hardwood, VCT/VAT, vinyl, painted and sealed floors and floors damaged by dry shrinkage and structural movement. Subfloors must meet current TCA Guidelines for ceramic tile installation.

Mud beds, concrete backer units or plywood subfloors may sometimes be substituted with membrane systems if they meet TCA installation guidelines. All four systems are thinner, lighter and more cost-effective.

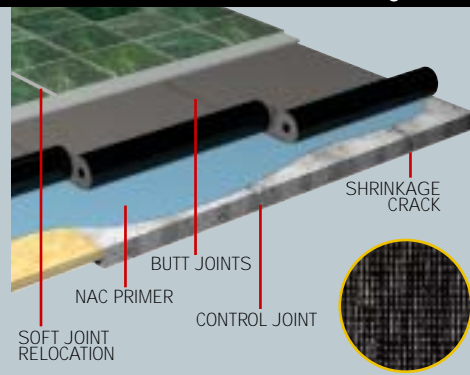
ECB - Anti-Fracture/Crack Suppression

ECB Membrane bridges up to 3/8" lateral movement and deflection of the substrate. ECB reduces reflective cracking and tile delamination. ECB is a vapor barrier to protect tile.

Available in three widths for use over entire floors or specific cracks and joints.

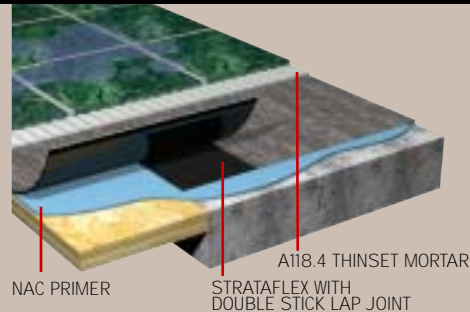
- 1' for use over non-structural cracks
- 2' for use over structural cracks cured at least 12 months
- 3' for complete coverage over new or existing floors or for strip application over control / cold joints cured at least 28 days

36" ECB Full Floor Coverage



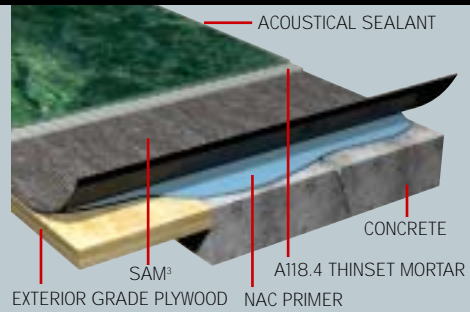
Strataflex - Waterproofing/Crack Suppression

Strataflex Membrane provides absolute watertight protection to ensure long-term integrity for your structure. The 2" double stick lap joint creates a watertight seal without the need for heat or toxic chemicals to bond. 6" Seam and Corner tape and NAC approved sealant may be required for end seams, wall to floor corner treatment and perimeter edge seals. Strataflex Membrane bridges up to 3/8" lateral movement and deflection of the substrate, reducing reflective cracking and tile delamination. Strataflex is a vapor barrier to protect tile. Strataflex is available in 3' x 50' rolls.



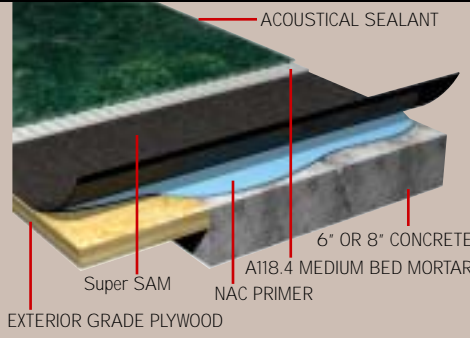
SAM³ - Sound Abatement/Crack Suppression: With SRC Assembly

SAM³ provides impact and audible sound reduction for Impact Insulation Class (IIC) rating and a Sound Transmission Class (STC) rating of not less than 50, as determined by ASTM Standards, E90, E413 and E492. SAM³ bridges up to 3/8" lateral movement and deflection of the substrate, reducing reflective cracking and tile delamination. SAM³ is a vapor barrier to protect tile and can be used in waterproofing situations. Assemble to meet or exceed tile industry standards. SAM³ is available in 3' x 50' rolls.



Super SAM - Sound Abatement/Crack Suppression: Without SRC Assembly

Super SAM provides impact and audible sound reduction for multi-level structures with or without a Sound Rated Ceiling Assembly. This includes structures with 6" or 8" concrete slab, loft type construction. Super SAM is designed for Transmission Class (STC) rating of not less than 50, as determined by ASTM Standards, E90, E413 and E492. Super SAM bridges up to 3/8" lateral movement and deflection of the substrate, reducing reflective cracking and tile delamination. Super SAM is a vapor barrier to protect tile and can be used in waterproofing situations. Super SAM is available in 3' x 50' rolls.



Durable Protection

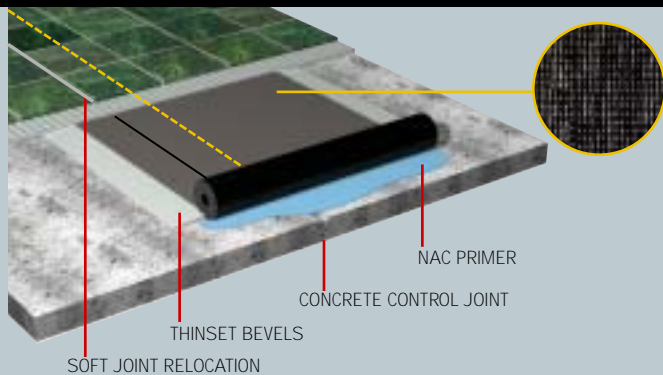
NAC's crack suppression membranes have two to three times the elastomeric performance of other membranes or liquid/trowel-applied products. NAC systems are designed to protect against subfloor movement, water damage and sound transmission.

Second to crack bridging ability, the most important performance factor for a thinset membrane system is its ability to withstand live loads such as cleaning equipment, lifts and high pedestrian traffic. If the composite system lacks compressive strength, tiles will fail under

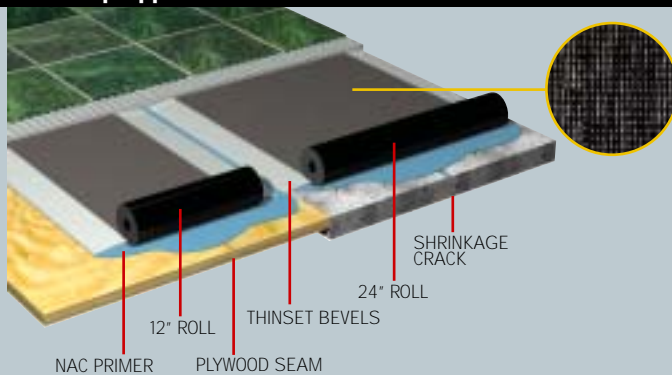
these loads. Specifying membrane systems for your project is the best way to ensure that the requirements of high impact loads are consistently met. ECB and Strataflex are rated for extra heavy duty and high impact use.

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36" ECB Joint Relocation



ECB Strip Application - Structural & Non-Structural Cracks



6" Seam & Corner Tape

6" wide self-adhering tape used to seal out water and vapors from corners and end seams. Available in special order widths and double stick overlap seams for flashing.

NAC TAC Interior Primer

Designed for all substrates in an interior application. Required for maximum shear/bond strength to meet A118.10-1993. Adjustable water-based primer with low VOC's.

101 Floor Prep

Reduces absorption of porous floors and strengthens new or old concrete, light weight concrete and gypsum® underlayments. Two to three applications can be used as a vapor retardant.

NS97 Exterior & Wet Area Primer

A non-flammable solvent based primer designed for exterior/wet area applications. Required for maximum shear/bond strength to meet A118.10-1993. Use with adequate ventilation.

NAC Approved Sealant

A gun grade urethane sealant used for expansion, soft joints, inside and outside corners and to seal the membrane's perimeter edges.

Performance

NAC membrane systems' shear/bond strength exceeds the industry standard for thinset membrane systems of 50 psi. 36" wide membranes are capable of 3/8" lateral expansion and contraction and will maintain a shear/bond strength of 70 to 110 psi, tensile force of 74 psi, depending on conditions.

ECB and **Strataflex** membrane systems are both rated for extra heavy duty and high impact service.

ASTM C-627 Test Method: 12" x 12" natural marble tiles were set over ECB Membrane with rapid-set mortar. All fourteen (14) cycles were completed without failure of tile or grout joint under a seven (7) day cure.

Limitations

Not recommended for use on concrete floors with vertical shear, excessive water vapor transmission or for use in applications where horizontal floor movement is greater than 3/8". Not recommended for hard surface flooring subject to warpage or cupping.

Joint openings larger than 3/16" must be pre-treated with the proper materials (see specifications for more information). Do not use petroleum base cleaners or sealers for tile, marble, stone or grout. Width of membrane must exceed width of tile in strip applications.

Impervious tile (less than 0.5% absorption) requires a 48 hour cure prior to grouting or the use of a rapid set

mortar. Protect finished floor from heavy construction or maintenance equipment during and after construction as tile damage may result.



Customer Support

Experienced technical representatives and a nationwide distributor network enable NAC to provide solutions for the most demanding tile installations. Call for technical assistance.

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Short Form Specifications

Anti-Fracture/Crack Suppression Membrane

1. **Material:** Provide **ECB** elastomeric membrane as manufactured by National Applied Construction Products, Inc., 3200 South Main Street, Akron, OH 44319, (800) 633-4622 or Architect approved equal.

- I. 40 mil thick load bearing membrane, capable of 3/8" crack suppression
- II. Self bonding, pressure sensitive sheet
- III. Compatible with most latex modified thinset mortars, epoxies and adhesives.

Provide NAC TAC Primer for interiors or NS97 Primer for exteriors/wet areas. Full floor coverage or material to be installed in a 36" wide strip application over control/saw cut joints as recommended by manufacturer and in 12" or 24" wide strip applications over cracks.

2. **Equipment:** Damp mop, industrial vacuum, chalk line, 75-100# roller or flat trowel, paint roller applicator or brush, hook or razor knife.

3. **Warranty:** National Applied Construction Products, Inc. "10 Year Fracture Free" Warranty in writing for full floor coverage projects or Limited Lifetime Warranty for strip applications.

Waterproofing/Crack Suppression Membrane

1. **Material:** Provide **Strataflex** elastomeric membrane as manufactured by National Applied Construction Products, Inc., 3200 South Main Street, Akron, OH 44319, (800) 633-4622 or Architect approved equal.

- I. 40 mil thick load bearing membrane, capable of 3/8" crack suppression.
- II. Waterproofing, self bonding, pressure sensitive sheet.
- III. Compatible with most latex modified thinset mortars, epoxies and adhesives.

Provide NAC TAC Primer for Interiors or NS97 Primer for Exteriors/wet areas. Full floor coverage with 2" double stick lap joint and seam tape application.

Note: Refer to ECB Specification for Equipment and Warranty.

Sound Abatement/Crack Suppression Membrane

1. **Material:** Provide **SAM³** membrane as manufactured by National Applied Construction Products, Inc., 3200 South Main Street, Akron, OH 44319, (800) 633-4622 or Architect approved equal.

- I. 70 mil thick load bearing membrane, capable of 3/8" crack suppression
- II. Sound Abatement with an SRCA, waterproofing, self-bonding, pressure sensitive sheet.

III. Compatible with most latex modified thinset mortars, epoxies and adhesives.

Provide NAC TAC Primer for Interiors or NS97 Primer for Exteriors/wet areas. Full floor butt joint coverage in 36" width. Provide acoustic sealant at tile perimeter.

Note: Refer to ECB Specification for Equipment and Warranty.

Sound Abatement/Crack Suppression Membrane

1. **Material:** Provide **Super SAM** membrane as manufactured by National Applied Construction Products, Inc., 3200 South Main Street, Akron, OH 44319, (800) 633-4622 or Architect approved equal.

- I. 90 mil thick load bearing membrane, capable of 3/8" crack suppression
- II. Sound Abatement without an SRCA, waterproofing, self bonding, pressure sensitive sheet.
- III. Compatible with most latex modified medium bed mortars, epoxies and adhesives.

Provide NAC TAC Primer for Interiors or NS97 Primer for Exteriors/wet areas. Full floor butt joint coverage in 36" width. Provide acoustic sealant at tile perimeter.

Note: Refer to ECB Specification for Equipment and Warranty.

Warranties

Lifetime Limited Warranty:

National Applied Construction Products, Inc., will replace any of our material proven defective for life. Satisfactory results depend not only on quality products, but also upon factors beyond our control. Therefore, liability, if any, is limited to replacement of our products. Any claim regarding product defect must be received in writing. No claim will be considered without such a written notice.

10-Year Fracture-Free Floor Warranty:

In addition to the limited warranty, each job where a membrane from National Applied Construction Products, Inc. is installed over the entire floor

where the tile is intended is considered for validation of warranty at the time of purchase. If the tile should fail while still under warranty, we will replace or repair the floor at reasonable cost under the terms and conditions of the warranty. Please call for details.

ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF PURPOSE ARE EXPRESSLY DISCLAIMED. THE SUITABILITY OF THE PRODUCT FOR AN INTENDED USE SHALL BE SOLELY UP TO THE USER.

Custom Specifications

Understanding that all floor tile installations are not created equal, NAC will provide custom specifications and job site evaluations at no charge.



3200 South Main St.
Akron, Ohio 44319

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ECB, STRATAFLEX and SAM Systems:		Property	Test Value	Test Method
SBS Modified bitumen, self-adhering formula, reinforced with stress flex fiber sheet or containing sound reduction materials.		FHA 4900.1	Pass, 3' Head (914 mm)	ASTM D-583
Thickness:		Tensile MD	880 psi (6072 kPa)	ASTM D-146
ECB & Strataflex:	40 mil, ± 5 mil (1 mm, ± .027 mm)	Tensile CD	550 psi (3795 kPa)	ASTM D-146
SAM ³ :	70 mil, ± 5 mil (1.8 mm, ± .027 mm)	Crack Bridging	3/8" (9.5 mm)	NAC Model
Super SAM:	90 mil	Shear/Bond	Pass	A118.1-1993
Seams:		Impact Resistance	Pass*	Mil-D-3134J
ECB & SAM ³	Butt joint application	System Performance ECB & SF	Extra Heavy Duty**	ASTM C-627
Super SAM	Butt joint application	Waterproofing Properties	Pass	ANSI A118.10
Strataflex	Double stick lap joint	SAM Systems	Light Commercial/Residential**	ASTM C-627 (Robinson Test)
Roll Sizes & Weights:		SAM³ and Super SAM:		
ECB:	1' (305 mm) x 50' (15.24 m) @ 16 lb (7.26 kg)	Specific test results related to building construction methods available.		
	2' (610 mm) x 50' (15.24 m) @ 32 lb (14.52 kg)	SAM ³ meets and exceeds IIC rating and STC rating not less than 50 as determined by ASTM Standards E90, E413 and E492 with a Sound Rated Ceiling Assembly.		
	3' (915 mm) x 50' (15.24 m) @ 50 lb (22.68 kg)	Super SAM meets and exceeds IIC rating and STC rating not less than 50 as determined by ASTM Standards E90, E413 and E492 with or without a Sound Rated Ceiling Assembly.		
Strataflex:	3' (915 mm) x 50' (15.24 m) @ 50 lb (22.68 kg)	* Modified for ceramic tile. 2 lb. (.91 kg) ball dropped 8' (2.44 m) on an 8" x 8" (203 mm) porcelain tile bonded to ECB & Strataflex.		
SAM ³ :	3' (915 mm) x 50' (15.24 m) @ 80 lb (36.28 kg)	** Completed after 7 day cure with a rapid set mortar using 12" x 12" natural marble tile.		
Super SAM:	3' (915 mm) x 50' (15.24 m) @ 95 lb (43.08 kg)			
Shelf Life: 1 year				
Freeze Thaw: Stable				

Printed in the U.S.A.

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