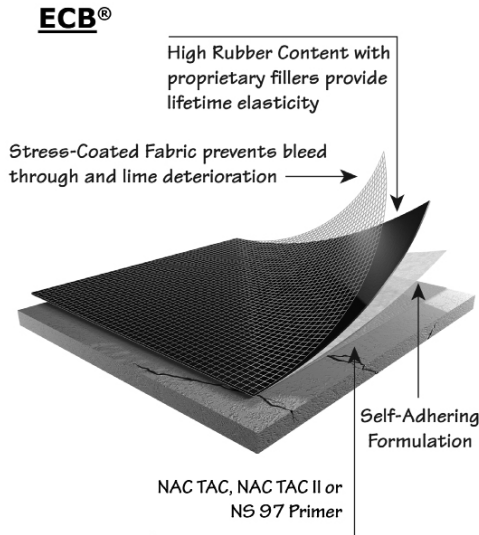


ECB® Anti-Fracture Membrane System

Product Data Sheet

National Applied Construction Products, Inc. • 800-633-4622 • Fax: 330-644-3557 • www.NACproducts.com

Important: Proper installation of this system requires use of the appropriate primers and companion products. Read and understand Product Data (PDS) and Material Safety Data (MSDS) for all products prior to installation.



Advanced Crack Isolation with MVT Resistance

ECB® membrane is a self-bonding, sheet applied elastomeric membrane consisting of a base layer of polymer modified elastomers permanently laminated to a unique “stress flex” fiber sheet. Together they form a single, high performance, self-bonding membrane designed for use under floor surfaces that require protection from structural movement.

ECB® will protect against Moisture Vapor Transmission (MVT) 10#/1000SF/24HRS when used with NAC TAC or NS97 Primer or 7#/1000SF/24HRS when used with NAC TAC II Primer. The membrane adheres permanently to the substrate, remains flexible and is guaranteed for life.

The **ECB®** membrane substantially reduces reflective cracking and delamination between the substrate and floor surface. Full floor coverage with 36" **ECB®** membrane will protect against 3/8" lateral substrate movement, and because it is a self-bonding system, it is easier to apply and installs faster than other systems. Once applied, floor tile can be installed immediately, minimizing down time and labor cost.

How It Works

The key to the **ECB®** membrane's effectiveness is in its two component design. The elastomeric base layer functions as a buffer, absorbing the thermal and structural movement of the substrate, while its unique “stress flex” fiber sheet accommodates A118.4 or better latex mortars, organic adhesives and epoxy setting materials. The adhesion and integrity of the tile floor are preserved by the “anti-fracture” action. NAC primers are necessary components of all NAC membrane systems (**See primer chart for more information**).

ECB® Anti-Fracture Membrane

Features and Benefits

- Suitable for interior and exterior use
- Meets ANSI A118.12 and ANSI A118.10
- Protects against reflective cracking and delamination
- Reduces live and dead load failures
- Safely covers asbestos flooring and provides an effective barrier against radon and mold
- Protects against MVT 10#/1000SF/24HRS when used with NAC TAC and NS97 Primer or 7#/1000SF/24HRS when used with NAC TAC II primer
- 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 and medium-bed applications
- Tile can be installed the same day as membrane
- Works with radiant-heated floors and tile warming systems

Installation Under

ECB® is recommended for use under thin & medium-bed mortar installations (ANSI A118.4) of ceramic, porcelain, stone, marble, slate, granite tile, pavers, and brick. Hardwood, manufactured wood, commercial grade vinyl and other finished floors are also acceptable; check with manufacturer. Ideal for use with radiant heated floors and low voltage tile warming systems.

Suitable Substrates

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

Wood: Exterior or exposure 1 plywood, APA-rated sheathing, Sturd-I-Floor, hardwood, tongue and groove and OSB with standard face. (Gap between sheathing as required.)

Other Substrates: Ceramic and porcelain tile, stone, terrazzo, VCT/VAT, metal, radiant-heated, painted and sealed floors and floors damaged by dry shrinkage and structural movement.

- For absorptive substrates use Moisture Lock 101® in accordance with manufacturer's instructions.
- A cementitious patch 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 **ECB®** Membrane; check with manufacturer.
- Not recommended for vertical or overhead surfaces.
- Refer to current TCNA handbook for additional guidelines.

Short Form Specifications

ECB® Anti-Fracture Membrane

- Material:** Provide ECB® Anti-Fracture 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.


- 40 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 below**). 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.

- 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 www.NACproducts.com for more information on warranties.

Primer Reference Chart

	INTERIOR APPLICATION			EXTERIOR APPLICATION		
	Below Grade	On Grade	Above Grade	Below Grade	On Grade	Above Grade
NAC TAC	✓	✓	✓	✓	✓	✓
NAC TAC II		✓	✓			
NS97				✓	✓	✓

Reference the PRIMER PDS SHEET for complete information of NAC Products, Inc. primers.

Technical Data

ECB® Anti-Fracture Membrane

Thickness: 40 mil, ± 5 mil (< 1/16")

Seams: Butt joint application

Roll Sizes & Weights:

1' (305 mm) x 50' (15.24 m) @ 17 lb (7.7 kg)
2' (610 mm) x 50' (15.24 m) @ 34 lb (15.5 kg)
3' (915 mm) x 50' (15.24 m) @ 52 lb (22.7 kg)

Shelf Life: 1 year

Freeze Thaw: Stable

Property	Test Value	Test Method
FHA 4900.1	Pass, 3' Head (914 mm)	ASTM D-583
Crack Resistance	3/8" (9.5 mm)	NAC Model
System Crack Resistance	Rated High Performance	ANSI A118.12
Load Bearing, Bonded Waterproof Membrane	Pass	A118.10
Shear/Bond	Pass	A118.12
Impact Resistance	Pass*	Mil-D-3134J
System Performance	Extra Heavy Duty	ASTM C-627
Impact Insulation Class	65	ASTM E 492-04
Sound Transmission Class	67	ASTM E 90-04

* 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® Anti-Fracture Membrane & Strataflex.

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