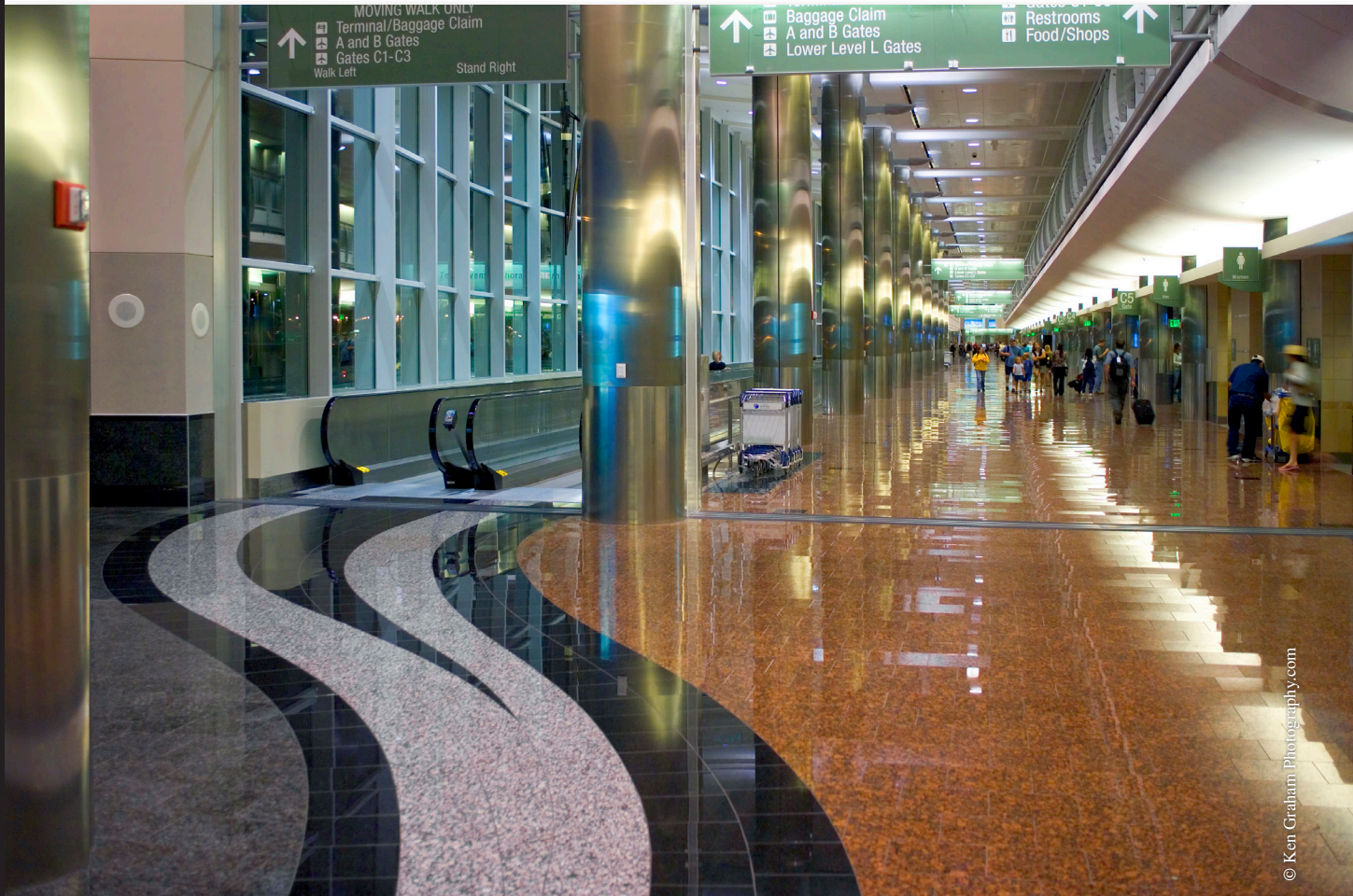


# Floor Underlayment Systems

for Tile, Stone, Wood, VCT and more



© Ken Graham Photography.com

**Crack Isolation**



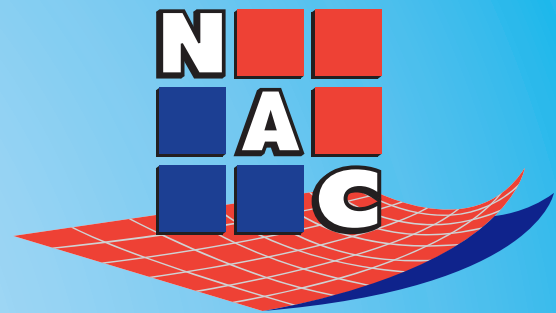
**Sound Control**



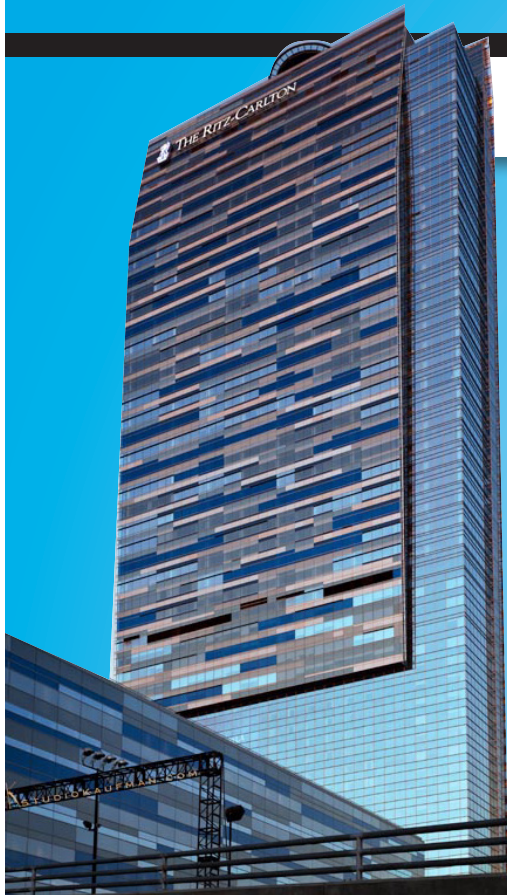
**Waterproofing**



**Moisture Barrier**



[www.nacproducts.com](http://www.nacproducts.com)



## Leadership Through Innovation Since 1983

### National Applied Construction (NAC) Products, Inc.

is a family owned and operated company that continues to pioneer floor and surface protection systems throughout the building industry. NAC membranes have been featured in thousands of commercial, residential and industrial applications worldwide and are the #1 architecturally specified, owner/contractor preferred and lab tested membranes on the market today.

In 1983, NAC revolutionized the way decorative floors were installed with the inception of the first self-adhering Elastomeric Crack Bridging (ECB®) anti-fracture membrane ever available! ECB® membrane was just the start of what has turned into an extensive line of crack isolation, waterproofing, sound control and moisture barrier solutions that are proven to out-perform the competition.

As NAC moves forward, we are firmly committed to providing environmentally safe and cost-effective solutions to protect your building investment. Visit us online at [www.nacproducts.com](http://www.nacproducts.com) or call us at 800.633.4622.

Super SAM® 125 was chosen to protect over 80,000 sq. ft. of living space against sound, water and cracking at the Ritz Carlton at L.A. Live.



### The NAC Guarantee

NAC Products provides warranty programs to help protect you and your flooring investment from failure. Whether it's a lifetime systems warranty or a five-year performance warranty, we offer standard and customized programs that fit your installation needs.

NAC warranty programs are backed by our extensive history of providing underlayment solutions to ensure lasting beauty for decorative surfaces. NAC membranes provide unsurpassed crack bridging protection, up to 3/8" lateral substrate movement, and are proven effective against Moisture Vapor Transmission (MVT). NAC sheet membranes have been perfectly engineered to provide just the right mix of rubber and asphalt to assure life long elasticity and bond to the substrate. We are proud to say that our membrane systems out perform the competition according to ANSI A118.12 for crack isolation, ANSI A118.10 for waterproofing and ANSI A118.13 for sound control.

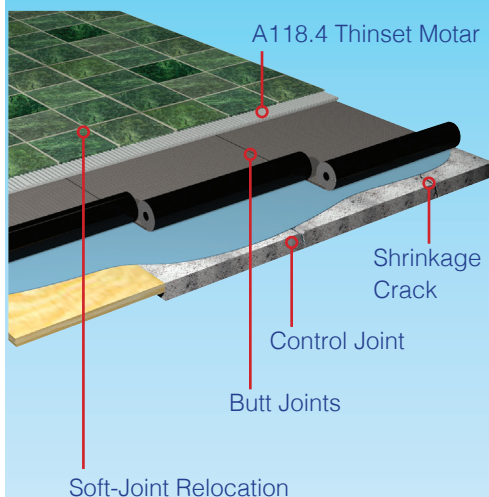
### Proud Partners



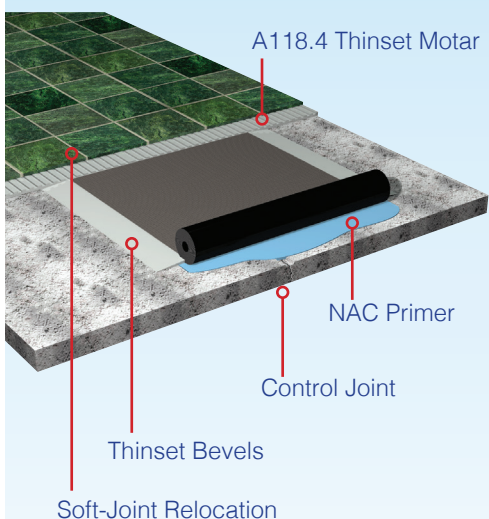


## PRODUCT APPLICATION

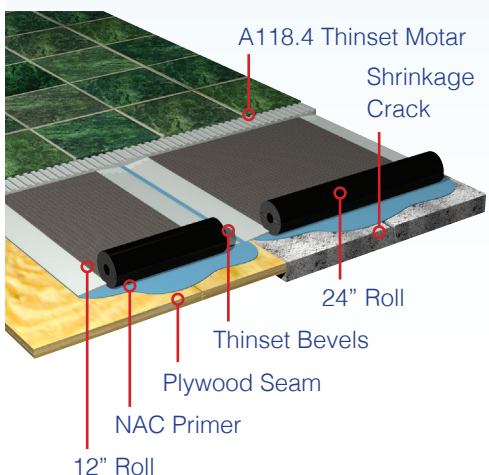
### Full Floor Coverage



### Joint Relocation



### Strip Application



## Crack Isolation

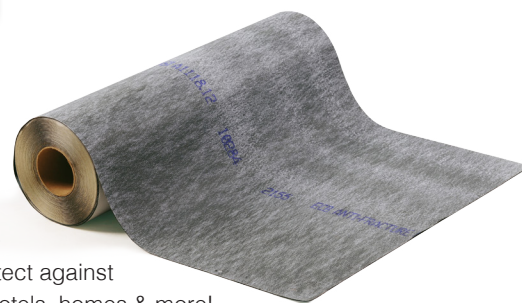
### ECB® Classic Membrane



ECB® Classic is a 40 mil self-bonding, sheet applied, elastomeric membrane designed for use under floor surfaces that require protection from structural movement. ECB® Classic adheres permanently to the substrate while remaining flexible enough to help protect against movement in the substrate. Ideal for malls, airports, hotels, homes & more!

#### Features and Benefits

- 3/8" Crack Isolation
- Lifetime Systems Warranty
- Rated "Extra Heavy Duty"
- Exceeds ANSI A118.12 for Crack Isolation
- Exceeds ANSI A118.10 for Waterproofing



- Up to 10#/1000SF/24HRS of moisture vapor transmission (with approved primer)
- Rugged topping is perfect to keep open for high traffic areas
- Ideal for radiant-heated floors
- Tile can be installed immediately

Size	Code	Sq. Ft.	Units
1' x 50'	010011200	50'	4
2' x 50'	010012400	100'	2
3' x 50'	010013600	150'	1

### ECB® 75 Membrane



ECB® 75 is the perfect value priced alternative to ECB® Classic that features just the right amount of elastomers to protect against lateral substrate movement. ECB® 75 is great for residential and commercial applications.

#### Features and Benefits

- 1/4" Crack Isolation
- 10-Year Warranty
- Rated "Extra Heavy Duty"
- Exceeds ANSI A118.12 for Crack Isolation
- Exceeds ANSI A118.10 for Waterproofing



- IIC: 65 \*
- STC: 67\*
- Ideal for radiant-heated floors
- Tile can be installed immediately

Size	Code	Sq. Ft.	Units
3' x 75'	0010013675	225'	1

\*tested on a 8" concrete slab with SRCA

### ECB® Green Membrane



ECB® Green anti-facture membrane is a 40 mil, third-party certified, recycled membrane. The self-bonding, elastomeric membrane is manufactured with polymer modified elastomers permanently laminated to a unique recycled topping. Together they form a single, high performance membrane that is engineered for LEED® projects.

#### Features and Benefits

- 3/8" Crack Isolation
- Exceeds ANSI A118.12 and ANSI A118.10
- Rated "Extra Heavy Duty"
- Provides barrier against radon, mold and asbestos



- Up to 10#/1000SF/24HRS of moisture vapor transmission (with approved primer)
- Tile can be installed immediately

Size	Code	Sq. Ft.	Units
3' x 50'	0010015333	150'	1



## Waterproofing

### Strataflex Membrane



Strataflex is a 40 mil high strength, self-bonding, elastomeric sheet membrane that provides waterproof and crack isolation protection. Features a 2" double stick lap joint that creates a water tight seal to assure waterproof defense.

#### Features and Benefits

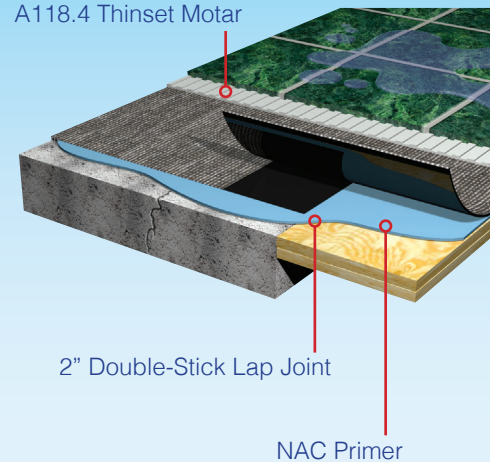
- Perfect for interior and exterior use
- Meets ANSI A118.12 for Crack Isolation
- Meets ANSI A118.10 for Waterproofing
- 3/8" Crack Isolation
- Effective against mold & moisture
- Features 2" double stick lap joint

Size	Code	Sq. Ft.	Units
1' x 50'	020020150-12	50'	3
3' x 50'	020020150	150'	1



## PRODUCT APPLICATION

A118.4 Thinset Mortar



2" Double-Stick Lap Joint

NAC Primer

### SubSeal® Liquid Membrane



SubSeal® is a one part, ready-to-use elastomeric waterproofing membrane, which also functions as a sealant, stand-alone crack suppressant and moisture barrier for hard surface, resilient and wood flooring. It attaches to the substrate with superior adhesion and meets ANSI A118.10 for thin-bed load bearing waterproofing membranes.

#### Features and Benefits

- Suitable for interior and exterior use
- Meets ANSI A118.12 and ANSI A118.10
- Quick drying; flood test in less than 24 hours
- Thin-bed and medium-bed mortar installations
- Effective barrier against radon and mold

Size	Code	Sq. Ft.	Units
1 gal.	040020001	110'	4
5 gal.	040020005	550'	1



SubSeal® Liquid Waterproofing Membrane can be applied by roller or trowel.



## Extreme Deck Waterproofing System

The NAC Extreme Deck Waterproofing System combines Strataflex sheet and SubSeal® liquid membranes to provide a double layer of waterproof protection, especially in areas with extreme heat and cold conditions, assuring lasting protection of your exterior deck.

The system utilizes preformed inside/outside fabric corners, seam tape, and polyurethane sealant to provide a complete watertight seal in tough waterproofing applications. NAC requires following the TCNA guidelines for waterproofing and control joint placement (EJ171).

#### Features and Benefits

- Ideal for exterior decks over a living space
- Exceeds ANSI A 118.10 and A118.12
- Available in a kit that covers 300 Sq. Ft.
- Most complete system on the market guaranteed

Size	Code	Sq. Ft.	Units
Kit	0400020300	300'	1



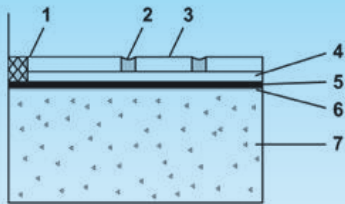
\*Kit contains 2 gal SubSeal®, 1 gal NAC TAC primer, 1 roll seam tape, 10 preformed fabric corners, 2 tubes of polyurethane sealant

\*\*Two rolls of 3'x50' Strataflex needed to complete the 300 Sq. Ft. system, sold separately



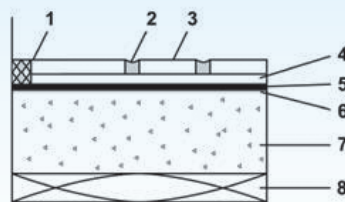
## PRODUCT APPLICATION

### Bare Concrete; No Sound Rated Ceiling Assembly



1. 1/4" NAC Acoustical Sealant
2. Soft Joint Where Required
3. Ceramic Tile - ANSI A137.1
4. Tile Bond Coat - A118.4
5. NAC Sound Control Membrane
6. Primer
7. Structurally Sound Concrete Sub-Floor

### Sound Rated Ceiling Assembly (SRCA)



1. 1/4" NAC Acoustical Sealant
2. Soft Joint Where Required
3. Ceramic Tile - ANSI A137.1
4. Tile Bond Coat - A118.4
5. NAC Sound Control Membrane
6. Primer
7. Structurally Sound Concrete Sub-Floor
8. Sound Rated Ceiling Assembly



## Sound Control

### SAM® 3 Membrane



SAM® 3 is a 90 mil sound control, waterproof and crack isolation membrane that protects tile, stone, wood and other hard surface floors. SAM® 3 has been lab and field tested for sound reduction with and without a SRCA.



#### Features and Benefits

- IIC = 70, STC = 67
- Exceeds ANSI A118.10, A118.12 and A118.13
- Bridges 3/8" (9.6 mm) lateral movement
- Engineered and tested for use with and without SRCA

Size	Code	Sq. Ft.	Units
3' x 50'	020020190	150'	1

### Super SAM® 125 Membrane



Super SAM® 125 is a premium, approximately 1/8" thick, self-adhering, sound deadening, sheet membrane for use over 6" or 8" concrete slabs without a sound rated ceiling assembly. It is chemically formulated to reduce airborne (STC) and impact (IIC) sound transmission when used under stone, ceramic and porcelain tile, wood and commercial grade vinyl tile.



#### Features and Benefits

- IIC = 51 STC = 54 ΔIIC = 22 over concrete with tile floor
- IIC = 51 STC = 52 ΔIIC = 23 over concrete with wood floor
- IIC = 56 STC = 61 wood joist with tile floor
- 3/8" Crack Isolation
- Light Commercial/Residential load rating
- Exceeds ANSI A118.10, A118.12 & A118.13
- Most effective "all-in-one" membrane on the market

Size	Code	Sq. Ft.	Units
3' x 50'	020020160	150'	1



## Moisture Control



### Moisture Lock 101®

Moisture Lock 101® is a clear, water based liquid chemical floor hardener which reacts with the free lime and calcium carbonate in concrete to allow it to fill and seal all pores and capillaries to harden and dust proof your surface. It is also used in conjunction with our membrane systems to help fight against moisture vapor transmission!

#### Features and Benefits

- Maximizes coverage of NAC Primers by minimizing absorption into porous substrates
- Hardens aged, powdering concrete
- 0% V.O.C. content, no odor
- Easy-to-use pre-mixed formula
- Seals dust on interior and exterior concrete surfaces
- Hardens soft surfaces caused by premature freezing or concrete surface
- Covers 100-300 Sq. Ft. per gallon depending on applicator and porosity of substrate.
- Up to three coats may be applied (24 HR cure between coats)

Size	Code	Sq. Ft.	Units
1 gal.	060370041	300'	4
5 gal.	060373455	1,500'	1



\*Applied with ECB and NAC TAC primer



## Companion Products

### Crack Isolation Kits

Strip applications of ECB® will protect tile from isolated cracks, however, correct position of the tile is critical. NAC offers two convenient kits as a solution to cost effectively address the issue of cracked concrete. Kits include a roll of ECB®, a pint of primer, primer brush and utility knife.

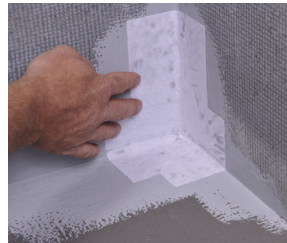
Size	Product	Code	Sq. Ft.
2'x25'	Large Tile Kit	010010550	50
1'x50'	The ECB Kit	010010548	50



### PFI/PFO Fabric Corners

Made of breathable material and are used in conjunction with SubSeal® Liquid Waterproofing Membrane. Our corners are commonly used on and above grade balconies, decks, bathrooms and kitchens.

- Allows for substrate movement in walls and floors while maintaining waterproof integrity
- Breathable fabric allows for SubSeal® membrane to soak into the fibers, assuring a strong and waterproof corner
- Low profile, durable construction for easy and fast installation



### 6" Seam Tape

Seam Tape is a double-stick elastomeric tape designed to seal and waterproof seams, joints, floor-to-wall transitions and more.

- Suitable for interior and exterior use
- Allows for a water-tight seal
- Tile can be installed same day as membrane
- Must be used with NAC primers



Size	Code	Sq. Ft.	Units
6"x50'	020020151	25	6
6"x50'	020020152	25	2

### NAC Primers

NAC TAC, NAC TAC II and NS97 Primers are necessary components of NAC Membrane Systems. Use of these primers is required in order to meet shear strength mandates by A118.10 for waterproof membranes.

Product	Below Grade			On Grade			Above Grade		
	Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior
NAC TAC	✓	✓	✓	✓	✓	✓	✓	✓	✓
NAC TAC II		✓	✓						
NS97				✓	✓	✓			



## ECB® Crack Isolation Kit Installation Instructions



### STEP 1

Clean The Floor



### STEP 2

Prime The Substrate



### STEP 3

Install ECB Membrane



### STEP 4

Apply Setting Material & Floor Tile







## Product Reference Chart

### Sheet & Liquid Applied Membrane Systems

Product	Installation				Applications							Industry Standards
	Crack Isolation	Waterproofing	Sound Control	Moisture Vapor Control	Interior	Exterior	Decks/Balcony	Residential	Commercial	Industrial	LEED/Green Building	
ECB® Classic	Best	Better	Good	Best	✓	✓		✓	✓	✓		ANSI A118.10, ANSI A118.12, ASTM IIC & STC Sound Testing
ECB® 75	Better	Better	Good	Best	✓	✓		✓	✓	✓		ANSI A118.10, ANSI A118.12, ASTM IIC & STC Sound Testing
ECB® Green	Best	Good	Good	Best	✓	✓		✓	✓	✓	✓	ANSI A118.10, ANSI A118.12, LEED MR 4.1
Strataflex	Best	Best	Good	Best	✓	✓	✓	✓	✓	✓		ANSI A118.10, ANSI A118.12
SubSeal®	Good	Best		Good	✓	✓	✓	✓	✓			ANSI A118.10, ANSI A118.12, LEED EQ 4.2
SAM® 3	Best	Better	Better	Best	✓	✓		✓	✓			ANSI A118.10, A118.12, A118.13 ASTM IIC & STC Sound Testing
SuperSAM® 125	Best	Good	Best	Best	✓	✓		✓				ANSI A118.10, A118.12, A118.13 ASTM IIC & STC Sound Testing



Best



Better



Good

**Approved Substrates:** Concrete: new and existing 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.

**Approved Toppings:** Thin-bed and medium-bed mortar installations (ANSI A118.4) of ceramic, porcelain, stone, marble, slate and granite tile, pavers and brick. Hardwood, manufactured wood, commercial grade vinyl and other finished floors are also acceptable; check with manufacturer. Also ideal for use with radiant heated floors and low voltage tile warming systems.



## Serving The Industry



### LEED/Green Building and USGBC

NAC Products is proud to offer tile, stone, and wood installation products that earn and offer certification for Scientific Certification Systems for post consumer recycled content along with low VOC adhesives and primers for the U.S. Green Building Council's LEED program. Visit [www.nacproducts.com](http://www.nacproducts.com) for the most up to date information.

### Architects/Designers

NAC Products is proud to offer crack isolation, sound control, and LEED presentations focused to meet AIA requirements. To schedule a presentation, please contact our office at 800-633-4622 or visit us at [www.nacproducts.com](http://www.nacproducts.com)

### Distributors

NAC Products can be found at over 125 locations in the USA, Canada, Mexico, Australia, New Zealand and more. NAC Products is proud to be part of the Ceramic Tile Distributors Association (CTDA) and offers live demonstrations and training for your team. If you are interested in hosting an in-house demonstration or want to stock our quality products, please call us at 800.633.4622.

### Contractors

NAC Products is proud to be a part of great organizations like the National Tile Contractors Association (NTCA), Tile Contractors Association of America (TCAA) and holds many positions on the Tile Council of North America (TCNA) to help educate, expand & promote proper installation methods and standards for you and your customers.

### End Users

At NAC Products, we are committed to bringing the highest quality, cost effective and reliable products to the end user. We offer many easy to use products and kits that make the installation process a breeze. NAC Products also offers FREE technical support to help guide you to a successful installation. Technical assistance is available between 8:30am - 5:00pm EST by calling 800.633.4622.

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