

Leggett & Platt® Flooring Products

ACI-125™ Acoustical Crack-Isolation Membrane

Engineered for use under Ceramic & Porcelain Tile

PRODUCT NAME

ACI-125™ Acoustical Crack-Isolation Membrane

MANUFACTURER

Leggett & Platt Flooring Products
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PRODUCT DESCRIPTION

ACI-125 is an extremely dense synthetic rubber underlayment that is thermo-reinforced and features a non-woven point-bonded polyester layer on the top and bottom.

Uses

ACI-125 is engineered for use under approved thin-set mortar for ceramic and porcelain tile installations to mitigate the transmission of cracks while helping reduce sound between floors.

Advantages

Fast & easy installation (no wait time like poured products)
Rated for High Performance in crack resistance (ANSI A118.12)
Can be secured to substrate with different methods
Remains dimensionally stable for long-term performance and reliability

Suitable Substrates

Concrete slabs
Concrete mortar beds
Self-leveling compounds
Lightweight gypsum concrete
Cement backer-board
Suitable wood subfloor

Packaging

One roll of BM0087 is 0.051" (1.3 mm) thick by 36" wide by 33.33' long totaling 100 square feet while one roll of BM0088 is 0.051" (1.3 mm) thick by 54" wide by 44.44' long totaling 200 square feet.

Shelf Life

Product in original packaging shall remain first quality for up to one year if stored within 32 and 110 degrees Fahrenheit.

Product Limitations

- ACI-125 shall be installed in accordance with the most current edition of the TCNA (Tile Council of North America) handbook for ceramic tile installation.
- Consult your selected manufacturer of thin-set mortar and adhesive to ensure suitability with ACI-125 prior to beginning the installation. Mortars should be at a minimum ANSI 118.11 specification level of performance.
- Do not install over designed substrate expansion joints or where vertical movement is present or over cracks larger than 3/16".
- Not recommended for use on concrete slabs where moisture vapor transmission is more than 5 lbs per 1000 square feet per 24 hrs as determined by a calcium chloride test.
- Do not install over any substrate that does not provide a smooth, solid foundation.

Technical Data

Product Specifications – ASTM D 3574

Composition:	Made with High-Density Synthetic Rubber	
Density:	66 lbs/ft ³ or 40 oz/yd ²	
Thickness:	0.051" (1.3 mm)	
R-Value	0.02	
Product Codes:	BM0087	BM0088
Dimensions:	36" x 33.33'	54" x 44.44'
Ft ² /Roll:	100	200
Yd ² /Roll:	11.11	22.22
Roll Weight:	28 lbs	56 lbs

Applicable Standards & Physical Properties (see appropriate footnotes on Appendix, page 4)

Standard	Test	Configuration		Description of Requirement	Result
ASTM C627	Robinson Test	Thin-set	Cycles 1-12	Heavy Commercial/Light Com/Residential	Pass
ASTM C627	Robinson Test	Multipurpose Adhesive	Cycles 1-6	Residential/Light Commercial	Pass
ASTM C627	Robinson Test	Spray-Lock Adhesive	Cycles 1-6	Residential/Light Commercial	Pass
ASTM C627	Robinson Test	Pressure Sensitive Adhesive	Cycles 1-3	Residential	Pass
ANSI A118.12	System Crack Resistance	-	-	>0.125 (1/8") for High Performance	Pass
ASTM E 413 STC	Sound Transmission Class	-	-	-	64
ASTM 989 IIC	Impact Insulation Class	-	-	-	63
ASTM E 2179 ΔIIC	Delta Impact Insulation Class	-	-	-	17

Installation

All substrates must be structurally sound and clean. Concrete slabs must be free of any surface residue that could affect the bond with thin-set or adhesive. For wood subfloor construction, refer to the TCNA handbook for more information on Ceramic/Porcelain tile installation over your particular subfloor.

Installing ACI-125 over thin-set: Refer to the most current edition of the TCNA (Tile Council of North America) handbook for ceramic tile installation for instructions for applying a thin-set mortar bed.

Installing ACI-125 using multipurpose adhesive:

- Subfloor must be clean, dry, flat, and structurally sound. Always follow the adhesive manufacturer's guidelines.
- Apply with a 1/16" width x 1/32" depth x 1/32" spacing notched trowel to ensure evenness of the application.
- After the adhesive sets up, roll out the ACI-125 leaving a minimum of 1/8" expansion along the walls. Seams should be butted tight to ensure no gaping. Packing-style tape can be used to hold seams tight as needed.
- Ensure proper adhesion of the underlayment to the substrate – no air pockets.
- **Always follow the adhesive manufacturer's guidelines.**

Installing ACI-125 using Spray-Lock adhesive:

Refer to www.spraylock.com for installation instructions using Spray-Lock 6500.

Installing ACI-125 using pressure-sensitive adhesive:

- Subfloor must be clean, dry, flat, and structurally sound. Always follow the adhesive manufacturer's guidelines.
- Apply with a 1/16" width x 1/16" depth x 1/16" spacing notched trowel to ensure evenness of the application.
- After the adhesive sets up, roll out the ACI-125 leaving a minimum of 1/8" expansion along the walls. Seams should be butted tight to ensure no gaping. Packing-style tape can be used to hold seams tight as needed.
- Ensure proper adhesion of the underlayment to the substrate – no air pockets.
- **Always follow the adhesive manufacturer's guidelines.**

Availability

Contact your Leggett & Platt Flooring Products Representative or contact us at 800-475-0010.

Warranty

To request a copy, please contact Leggett & Platt Flooring Products.

Maintenance

ACI-125 is maintenance free and will perform as designed when properly installed.

Technical Services

Additional information can be found by visiting us at LPFlooringProducts.com or by contacting us at **800-475-0010**.



Appendix:

1. Test conducted using ACI-125 installed on slab using premium mortar and with 8" x 8" ceramic tiles installed on top using premium mortar and sanded grout. Thin-set mix ratio was 20.9:100 by weight and applied using a ¼" x ¼" square notched trowel. Tiles were back buttered with a skim coat. Grout was same mix ratio by weight and joint gap was ¼". The total grouted installation was allowed to cure for 28 days.
2. Test conducted using ACI-125 installed on slab using premium carpet adhesive which was applied using a 3/32" x 3/32" x 3/32" flat V-notched trowel and with 8" x 8" ceramic tiles installed on top using premium mortar and sanded grout. Tiles were back buttered with a skim coat. Mortar and grout was 20.9:100 mix ratio by weight. Grout applied using a ¼" x ¼" square notched trowel and joint gap was ¼". The total grouted installation was allowed to cure for 28 days.
3. Test conducted using ACI-125 installed on slab using premium aerosol adhesive and with 8" x 8" ceramic tiles installed on top using premium mortar and sanded grout. Thin-set mix ratio was 20.9:100 by weight and applied using a ¼" x ¼" square notched trowel. Tiles were back buttered with a skim coat. Grout was same mix ratio by weight and joint gap was ¼". The total grouted installation was allowed to cure for 35 days.
4. Test conducted using ACI-125 installed on slab using pressure-sensitive adhesive and with 8" x 8" ceramic tiles installed on top using premium mortar and sanded grout. Thin-set mix ratio was 20.9:100 by weight and applied using a ¼" x ¼" square notched trowel. Grout was same mix ratio by weight and joint gap was ¼". The total grouted installation was allowed to cure for 37 days.