

Leggett & Platt® Flooring Products

ACI-125[®] Acoustical Crack Isolation Membrane

Recommended Installation Instructions – Multiple Methods

Surface Preparation:

Concrete must be installed in compliance with industry standards as well as dry (28 days minimum) prior to installing ACI-125. The surface must be smooth with no voids or other irregularities. Ensure there are no sealers, paint, oil/grease or any other contamination on the slab that would possibly hinder a successful bond. Use a modified Portland cement underlayment to provide a smooth finish if needed. *Concrete should be tested for both moisture vapor transmission and hydrostatic pressure using a calcium chloride test.*

For fast-track applications where the ceramic will need to be installed the same day as the underlayment, the dry-set method is preferred.

For wood subfloors, it is the responsibility of the installer to verify the deflection of the floor structure and that subfloor does not exceed L/360 of the span under combined live or dead loads. Refer to wooden subfloor industry guidelines for more specific information.

For both wood and concrete subfloors, reference the TCNA Handbook for specific installation requirements and limitations.

Installing ACI-125 over thin-set:

- Subfloor must be clean, dry, flat, and structurally sound. Always follow the thin-set manufacturer's guidelines.
- Apply modified thin-set using the thin-set manufacturer's recommended trowel to ensure evenness of the application. If none is recommended, a 1/8" x 1/8" square notched trowel may be used.
- Roll out the ACI-125. 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. Roll with the ACI-125 roll core at a 45-degree angle to ensure proper adhesion.
- 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 adhesive using the multipurpose adhesive manufacturer's recommended trowel to ensure evenness of the application. If none is recommended, a 3/32" x 3/32" x 3/32" flat V-notched trowel may be used.

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- Roll out the ACI-125, leaving a minimum of 1/8" expansion along the walls. Seams should be butted tight to ensure no gapping. Packing-style tape can be used to hold seams tight as needed.
- Ensure proper adhesion of the underlayment to the substrate – no air pockets. Roll with a maximum 50 lb. roller at a 45-degree angle to ensure proper adhesion. The ACI-125 roll core can also serve the same function.

Installing ACI-125 using Spray-Lock adhesive:

- Subfloor must be clean, dry, flat, and structurally sound.
- Refer to www.spraylock.com for installation instructions using Spray-Lock 6500.
- Roll out the ACI-125, leaving a minimum of 1/8" expansion along the walls. Seams should be butted tight to ensure no gapping. Packing-style tape can be used to hold seams tight as needed.
- Ensure proper adhesion of the underlayment to the substrate – no air pockets. Roll with a maximum 50 lb. roller at a 45-degree angle to ensure proper adhesion. The ACI-125 roll core can also serve the same function.

Installing ACI-125 using pressure-sensitive adhesive:

- Subfloor must be clean, dry, flat, and structurally sound. Always follow the adhesive manufacturer's guidelines.
- Apply adhesive using the pressure-sensitive adhesive manufacturer's recommended trowel to ensure evenness of the application. If none is recommended, a 1/16" x 1/32" x 5/64" U-notched trowel may be used.
- After the adhesive sets up, roll out the ACI-125 and leave a minimum of 1/8" expansion along the walls. Seams should be butted tight to ensure no gapping. Packing-style tape can be used to hold seams tight as needed.
- Ensure proper adhesion of the underlayment to the substrate – no air pockets. Roll with a maximum 50 lb. roller at a 45-degree angle to ensure proper adhesion. The ACI-125 roll core can also serve the same function.

Adhesive Note:

When using adhesive over Gypcrete or other lightweight concrete substrate, use a Universal Primer such as Taylor 2025 prior to adhesive application.

If moisture mitigation is needed, use a product with a high moisture tolerance such as Taylor 2098/Dynamic™ TPS. This particular adhesive is capable of withstanding substrate moisture up to 10 lbs. or 99% RH with a pH limitation of 12.

Important Note:

When installing under ceramic or porcelain over a wooden subfloor, it is imperative to confirm adequate support per TCNA requirements to prevent stress on tiled flooring due to subfloor flex.

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