

SOUND CONTROL & ANTI FRACTURE MEMBRANE SYSTEM CSM 110



CSM 110 Sound Control & Anti-Fracture Membrane System is a self-adhering 'peel-and-stick' membrane. CSM 110 consists of a base layer of polymer modified elastomers permanently laminated to a unique "stress flex" fiber sheet. This forms a single, high performance, self bonding membrane over which ceramic tile or dimension stone can be installed immediately after placement with a latex-modified Portland cement mortar. **Exceeds Florida Building Code 1207.3 Requirements.**

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TECHNICAL DATA:

APPLICABLE STANDARDS

ASTM International (ASTM)
ANSI American National Standard Institute (ANSI)

- Color - Gray Top / Black Adhesive
- Thickness - 110 mil
- Application Temperature - 45°F to 120°F (7°C to 49°C)
- Operating Temperature - -20°F to 180°F (-29°C to 82°C)
- ASTM C627 "A Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson - Type Floor Tester: Rated "Light".
- ASTM E2179. Delta Impact Sound Transmission - Delta IIC 22
- ASTM E90. Sound Transmission Class STC=55
- ASTM E 492. Impact Insulation Class IIC=50

Sound Reduction Ratings:

- 8" Concrete floor with a gypsum board ceiling assembly: IIC 72 STC 72
- 6" Concrete floor without a suspended ceiling: IIC 50 STC 55
- Delta impact sound transmission: Delta IIC 22

INSTALLATION:

SUITABLE SUBSTRATES:

Interior use only: concrete, mortar beds, exterior glue plywood, cement backer board, cement terrazzo, ceramic tile and stone, oriented strand board (OSB).

LIMITATIONS:

- Do not apply over marine-grade plywood, Luan, Masonite, laminate, metal or fiberglass surfaces.
- Not for use under agglomerate tile, LVT, cement and epoxy floor topping systems.
- Not for use as a waterproofing membrane.
- Not for use on concrete floors where hydrostatic pressure exists or where moisture vapor transmission exceeds 4 lbs.
- Do not use under mortar beds thicker than 3/8", installations requiring more than 3/8" of thin set mortar need to be raised with a self leveling compound or a pre-mortar bed and allowed to cure prior to installation.
- Do not use solvent based sealants or sealers where contact with membrane may occur.
- Do not install over wet primer.
- Existing cracks larger than 3/16" should be prepared with proper backing material prior to installation of membrane.
- Not for use over expansion or structural movement joints.

INSTALLATION:

SURFACE PREPARATION:

Subfloor must conform to ANSI 108.01 standards. Assemblies over which AFM Anti Fracture Membrane will be installed shall be in conformance with the International Residential Code (IRC) for residential applications, the International Building Code (IBC) for commercial applications, or applicable building codes.

Perimeter and field movement joints are to be installed in accordance with TCNA Method EJ171. Flooring and membrane must acclimate to jobsite conditions before installation. Concrete subfloors must be dry, clean and free of dirt, grease, wax, paint, oil or anything that would adversely affect adhesion of the CSM Crack Suppression Membrane.

Check subfloor for excessive moisture using ASTM E1869 Standard Test Method for measuring moisture vapor emission rate of concrete subfloor using Anhydrous Calcium Chloride. Readings must be less than 4 lb.

Priming: Interior Primer should be applied with a short nap roller, flat trowel, brush applicator or sprayer. Substrate temperature should be at least 65°F.

Prime only an area that will be covered by Membrane within four hours. Apply a thin film of uniform thickness to substrate in single strokes. Do not re-roll primer. Air pockets may form if membrane is

installed over wet primer. Allow Primer to dry until tacky to touch, but non-transferable to finger. This may take as little as 10 minutes, but usually no more than 45, depending upon temperature, humidity, internal moisture level/porosity of substrate and application thickness. See primer labels for additional information. Slit release paper and allow membrane to roll out, adhesive-side down, across primed floor. Press Membrane into place with using a 75-100# Roller.

Layout: Unroll CSM 110 with release liner side down. Cut the length approximately 12" longer than the distance to be covered. Trim membrane to fit tightly against the walls and cutouts (within 1/4"). Fold back half of the length of the roll back over the other half of the material. Score through the release liner only and take care not to cut completely through the membrane.

APPLICATION:
Pull release liner away from membrane where scored. As the release liner is pulled away, hand-smooth the membrane to contact the primed subfloor. Keep the release liner material close to the floor while pulling away; this will allow for a more controlled application of the membrane. Align membranes in a butt joint fashion making sure not to overlap the seams. Note: There will be an immediate and aggressive bond of the membrane to the primed subfloor. Realignment of the membrane can be difficult once adherence to the subfloor begins.

After CSM 110 is installed, ceramic, porcelain or stone tiles can be installed in a 3/8" or less bed of mortar that meets the ANSI 118.4 standards. Follow the TCNA and ANSI installation requirements through the remainder of the installation.

CAUTION:
Not recommended for use on concrete floors with excessive moisture vapor transmission or excessive hydrostatic head pressure. Protect floors from traffic until new floor is fully cured. Large format tile installations may require extended cure time. Membrane

and companion products must be protected from elements until tile is installed, grouted and cured. SGM must be contacted for special instructions prior to application of a leveler or patching compound to membrane. Do not use petroleum-based cleaners or sealers for tile, marble, stone or grout. Impervious tile (less than 0.5% absorption) requires a 48 hour cure time prior to grouting. Protect floors from heavy construction equipment during installation to prevent damage.

COVERAGE:
Approx 375 (34.83mm) to 425 (39.48mm)
375-425 Sq. Ft/ Gal Interior Primer

PACKAGING:
Underlayment:
36" X 40' Roll (914mm x 12.2mm)
Primer: 1 Gallon containers

SHELF LIFE:
CSM 110 maintains optimum initial adhesion to substrates when used within one year from date of manufacture.

AVAILABILITY & COST:
Availability: SGM, Inc has manufacturing and distribution facilities throughout the United States and abroad, allowing for timely deliveries. Contact SGM, Inc. for local availability.
Cost: CSM 110 is competitively priced. For specific price information, contact SGM, Inc

WARRANTY:
SGM Inc. warrants this product will perform in accordance with its intended use for a period of one year from the date of manufacture. Any claim for defective product must be submitted in writing to SGM Inc. and samples of defect must be provided. SGM Inc.'s sole obligation will be to replace any product determined to be defective by SGM Inc. EXCEPT AS PROVIDED HEREIN, SGM INC. MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. IN NO EVENT SHALL SGM INC. BE LIABLE

FOR DAMAGES OF ANY KIND OR NATURE, WHETHER ARISING BY CONTRACT, TORT OR OTHERWISE. SGM INC.'S SOLE OBLIGATION WILL BE TO REPLACE ANY PRODUCT DETERMINED BY SGM INC. TO BE DEFECTIVE.

MAINTENANCE:
None required.

TECHNICAL SERVICES:
Technical assistance, including more detailed information, product literature, test results, project list, samples, assistance in preparing project specifications and arrangements for job site inspection and supervision, is available by contacting SGM Technical Services Department.

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