

CSM 40 CRACK SUPPRESSION & SOUND CONTROL MEMBRANE SYSTEM



CSM 40 crack suppression membrane system is a self-adhering crack isolation membrane. CSM 40 consist of a base layer of polymer modified elastomers permanently laminated to a unique “stress flex” fiber sheet to form a single, high performance , self bonding membrane.

MANUFACTURER:

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TECHNICAL DATA:

APPLICABLE STANDARDS

ASTM International (ASTM)
ANSI American National Standard Institute

- ASTM C627 “A standard test method for evaluating ceramic floor tile installation systems using the robinson-type floor tester: rated “extra heavy”.
- ANSI 118.12 “ANSI specifications for crack isolation membranes for thin-set ceramic tile and dimension stone installation. Meets or exceeds ANSI 118.12.
- ANSI 118.10 “ANSI specification for load bearing , bonded, waterproof membranes for thin-set ceramic tile and dimension stone installation meets or exceeds ANSI 118.10.

INSTALLATION:

SUITABLE SUBSTRATES:

Poured concrete, pre-stressed and pre-cast concrete. Concrete backer-board, mud beds, gypsum, lightweight concrete and patching compounds. Wood: exterior or exposure 1 plywood, APA-rated sheathing, sturdy-I-floor, hardwood, tongue and groove and OSB standard face (Gap between sheathing as required). Other substrates include ceramic and porcelain tile, stone, VCT/ VAT, metal, radiant-heated, painted and sealed floors and floors damaged by dry shrinkage and structural movement.

SURFACE PREPARATION:

Surfaces must be level, structurally sound and meet 1/360 for ceramic and porcelain tile or 1/720 for stone tile on

live or dead loads. Grind bumps and level slab depressions with quality latex underlayment in accordance with manufacturer’s instructions. Surfaces must be free of holes, projections, moisture or bond breakers. Scarify smooth surfaces.

Maximum variation of 1/4” in 10’ from the required plane. Refer to Material Information Sheet for suitable substrates. Ensure joist spacing consists of no more than 16” on center and a double sub-floor consists of at least 5/8” per sheet. Perform Black Mat MVT (Moisture Vapor Transmission) test. If MVT is present, conduct F-1869-98 test for emissions. Contact SGM,Inc for instructions if MVT drive is in excess of 10#/1000SF / 24hrs. Apply cementitious parge coat to concrete block and allow to cure before installation apply SC25 Acrylic Mortar Admix to highly porous surfaces such as mud beds, gypsum/gypcrete, lightweight concrete and patching/leveling compounds. Allow SC25 Acrylic Mortar Admix to cure 24 hours prior to applying primer. Some backerboards are not suitable for vertical CSM 40 application. A successful overnight Pull Test is required. All installations begin with a clean, dry floor. Substrates must be well adhered and clean of wax, petroleum sealers, dirt, grease, oil or other bond-breakers.

Recommended for installations under thin-bed & medium bed mortar installations (ANSI 118.4) of ceramic, porcelain, stone, slate, marble and granite tiles. Also for use under brick, pavers, hardwood and manufactured wood. Also ideal for use with radiant heated floors and low voltage tile warming systems.

APPLICATION:

Measure and pre-cut membrane to 4”-6” longer than required size. Re-roll membrane to half the room’s depth. Apply Interior or Exterior Primer as required: Interior Primer should be applied with a short nap roller, flat trowel, brush applicator or sprayer.

Substrate temperature should be at least 65°F. Exterior Primer should be applied a short nap roller, notched trowel (no larger than 1/16” x 1/32” x 1/32”) or paintbrush. Substrate temperature should be at least 55°F. Shake, mix or stir Primer thoroughly. Prime only an area that will 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 flat side of trowel applying 50 lbs. of pressure/ sq. inch or a 75-100# Roller.

Full Floor Coverage Application: Butt joint 36” CSM 40 or overlap and single cut through to remove excess. For end seams, continue with next roll and butt joint ends. Membrane is non-directional. Placement of control joints may be ignored. Isolation joints, such as around weight bearing columns, and expansion joints placed for vertical movement need to be carried through to tile installation. Soft joints in tile patterns are required as per TCNA Handbook.

Strip Applications: Joint Relocation: 36” CSM 40 may be placed over control/saw-cut joints. Offset CSM 40 2’ to one side of joint. On 1’ side of CSM 40, cut through membrane at tile joint closest to control/ saw-cut joint. This will assure lateral movement transfer to membrane. Apply appropriate caulk to new “soft joint”. Bevel CSM 40 edges with thin-set or mortar for a smooth transition to substrate.

Structural Cracks: Center 24" CSM 40 over cracks that completely penetrate slab. If crack turns, cut and butt joint CSM 40 to accommodate direction. Bevel CSM 40 edges with thin-set or mortar for a smooth transition to substrate.

Non-Structural Cracks: Center 12" membrane over non-structural cracks such as hairline shrinkage cracks. If crack turns, cut and butt joint CSM 40 to accommodate direction. Bevel CSM 40 edges with thin-set or mortar for a smooth transition to substrate.

Exterior and Wet Area Applications: All joints and termination points of the Membrane must be sealed with 1/4" bead of SGM, Inc Approved Sealant. Smooth out sealant with flat side of trowel and let cure.

In-Floor Heating Systems: Use CSM 40 Membrane System, full floor coverage, over in-floor, hydronic heating systems placed in poured gypsum/gypcrete or other lightweight products. Read 101 Floor Prep Product Data and Installation Sheet. Apply Interior Primer or Exterior Primer as required and install CSM 40 Membrane as directed. Use 118.4 or better mortar for tile installation.

Tile Warming Systems: Use CSM 40 Membrane, full floor coverage, over substrates where low-voltage tile warming systems are to be installed. Follow CSM 40 Product Data and Install guidelines. Secure tile warming system to Membrane as directed by manufacturer. Use 118.4 or better mortar for tile installation. Tile Setting Materials When installing porcelain, ceramic and decorative stone tile or related products, a thin-bed, latex-modified mortar meeting ANSI A118.4 must be used. Apply membrane over level coats, mortar and mud beds. Key setting material into membrane with flat side of trowel. Re-apply mortar with notch side of trowel using minimum trowel size of 1/4" x 3/8". Contact tech support for trowel size when using organic adhesives and epoxy mortars suitable for ceramic tile applications.

Application Notes for CSM Primer: Clean-up: remove wet primer with a damp cloth and potable water. Use mineral spirits for dried primer, following manufacturers instructions. This primer is not freeze/ thaw stable. Do not store below 35 F. If primer separates, shake well. If product does not e-mix, do not use. Due to the increased adjustability of this primer to membrane, a pull test, if needed, should be performed

after 24 hours. Permanent bond should be established after 48 hours.

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 times. 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:

225 Sq. Ft/ Roll
375-425 Sq. Ft/ Gal Interior Primer
300-400 Sq. Ft/ Gal Exterior Primer

PACKAGING:

36' X 50'
1 Gallon containers

AVAILABILITY & COST:

Availability: SGM, Inc has manufacturing and distribution inventory facilities throughout the United States and abroad, allowing for timely deliveries. Contact SGM, Inc for local availability.

Packaging: multi-ply heavy duty lined bag, net wt. 80 lb. (36 kg).

Cost: CSM 40 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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