



# CRACK SUPPRESSION & WATERPROOFING KIT

## Southcrete 1100

SGM Southcrete 1100 Crack Suppression and Waterproofing is a two part, trowelable, thin, load bearing membrane system for use under thin set and thick bed mortar installations.

### MANUFACTURER:

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### USES:

SGM Southcrete 1100 may be used to reduce transmissions of existing cracks through ceramic tile, marble and terrazzo floors. It can also be used for residential and commercial applications where complete waterproofing is required. Applications include vertical or horizontal, both interior or exterior over properly prepared concrete, mortar beds, cementitious backer units, (APA) exterior grade plywood (Interior Use Only), existing ceramic tile and drywall. Showers, Steam Rooms and Spas, Bathrooms, Laundry Rooms and Hot Tubs, Restaurants, Kitchens and Hospitals, Balconies, Plazas and Fountains.

### LIMITATIONS:

Install only when temperature is at least 50°F but not to exceed 90°F. Do not use over any of the following: metal, particleboard, Luan plywood, hardwood or parquet flooring, gypsum-based underlayments, resilient flooring, drywall or plaster on exteriors, not to be used to cover over existing control expansion, construction cold or saw-cut joints. Do not use in areas subject to inclement weather within 48 hours after installation.

### SURFACE PREPARATION:

Floors must be 28 days cured and free of moisture. All areas to receive application should be free of any wax, oil, dust or paint overspray. Follow ANSI specifications to

ensure proper preparation. Plywood floors must be constructed within tile industry standards and must be APA exterior grade. All areas subject to application should be flat. Wet and exterior installations should ensure proper slope (pitch) to drain away from structure. Approximately 1/4" per foot. **Note:** Membrane shall not be used to level. Substrates shall be repaired and leveled prior to the application of Crack Suppression and Water Proofing Membrane.

### MIXING:

Using a clean container, add one part powder to one part liquid by weight. Combine powder to liquid gradually; mix until a completely consistent, homogenous mix is obtained. Note: A slow speed mixer is recommended (approximately 200-300 RPM) or manually mix with margin trowel or similar. Avoid high speed mixing or prolonged mixing which can entrain air and shorten pot life.

### WATERPROOFING APPLICATION:

Apply mixture liberally with flat side of trowel, ensuring that all surface areas are covered leaving no voids or pockets. Re-trowel over entire area with additional material using 3/16" v-notched trowel at a 45° degree angle to surface. Do not penetrate first coat to substrate with notched trowel. Ensure that 100% coverage has been obtained. Again, using the flat side of trowel, smooth over edges left by trowel, so that a flat continuous layer approximately 45 mils. thick exists. Periodically check with wet film gauge for thickness, making sure that there are no bubbles or voids in the membrane after curing. Should any imperfections appear, apply a second coat.

**Note:** Exterior applications, especially in colder climates should not allow water to collect (puddle), which could possibly result in failure.

### ANTI-FRACTURE MEMBRANE & WATERPROOFING:

For hairline shrinkage cracks that are 1/8" or less, apply mixture liberally with flat side

of trowel forcing mixture into cracks. Re-trowel over cracks so that a flat continuous layer of approximately 45 mils. thick exists. Apply membrane approximately 6" wide.

On cracks larger than 1/8" or any joint susceptible to movement such as expansion, control, cold or seismic joints, treat in the following manner: Open and clean out joint to be covered. Fill joint with membrane and spread 4" to either side of joint.

While membrane is still wet and tacky, embed 6" wide fiberglass mesh into membrane and smooth mesh over crack using the flat side of trowel. Allow membrane to cure 2 to 4 hours, then apply additional membrane if necessary.

Before laying ceramic tile or dimension stone, mark joint with chalk to avoid installing tile over the joint. Caulk joint once tile has been installed and properly cured; consult sealant manufactures directions for specific details.

**For joints that exceed 3/8"**, clean joints and install open or closed cell foam polyethylene, rounded at surface to contact sealant. Sealant must not bond to back-up material. Note: ALL expansion, control, cold and seismic joints in the structure should continue through tilework. Refer to TCNA method EJ171 for guidance. Consult Architect for proper placement.

### FLASHING REQUIREMENTS:

Flashing must be installed at all locations where the horizontal plane meets vertical abutments such as columns, curbs and any surface penetrations. Flashing should be done prior to application of membrane and allowed to set for 30 minutes. Reinforce all seams and abutments by embedding 6" wide fiberglass mesh into membrane. Make sure fiberglass is completely covered with membrane and has an approximate 3" overhang on either side. Membrane should continue 3" beyond fiberglass mesh and overlap fiberglass mesh 3" wherever there

is a seam and both inside and outside corners where two walls meet.

#### **DRAINS:**

Apply membrane liberally with flat side of trowel. While membrane is still wet and tacky, embed 12" X 12" fiberglass mesh into membrane. Cut excess fiberglass mesh so that drainage hole is not obstructed, then re-apply additional membrane and smooth mesh using the flat side of trowel. Note: drains should be the type with weep holes and clamp style ring. Once cured this will allow upper flange to be clamped onto membrane to tighten. Toilet flanges can be installed similar. Caulk areas that make contact with flange using a silicone caulk. Drains and toilet flange should be fully supported without movement.

#### **WATER TESTING:**

Membrane must cure a minimum of 72 hours prior to water testing. Plug drains and dam area to be tested. Fill area with water and allow a minimum of 24 hours to check for leakage. Place a mark on wall or surroundings to monitor water level for leaks. Allow 24 hours before checking for any loss from marks showing the level of the previous day. Some leaks will be apparent by air bubbles. If level has dropped, thoroughly check around drain and all points of flashing. Contact SGM for additional recommendations.

#### **SPECIFICATIONS:**

Meets ANSI A118.10 for bearing, bonded, waterproof membranes for thin-set ceramic tile and dimension stone installations.

#### **CURING:**

Allow membrane to cure 72 hours prior to water testing for leaks. Tiles may be installed as soon as 4-6 hours after application, depending on atmospheric conditions. Install tiles using a latex-modified mortar such as SGM Floor/Wall gauged with Southcrete 25 Acrylic Mortar Admix.

#### **COVERAGE:**

This unit will cover approximately 75 sq. ft. using a 3/16" v-notched trowel.

#### **CAUTION:**

Wear rubber gloves and protective clothing. **EYE IRRITANT!** Product is Alkaline on contact with water. Use paddle for mixing to avoid splashing into eyes or contact with skin. During mixing or application, avoid contact with eyes. In case of such contact flood eyes repeatedly with water and **CALL PHYSICIAN.** Wash thoroughly after handling and before smoking or eating. Do

not take internally. Harmful if swallowed. Do not induce vomiting. Call physician immediately. **KEEP OUT OF REACH OF CHILDREN.** CONTAINS: Acrylic Polymer Emulsion – C.A.S. 13983-17-0.

**WARNING:** This product may expose you to chemicals, including silica, which the state of California recognizes as a cause of cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **LIMITED WARRANTY:**

SGM, Inc. will replace any material provided defective with the maximum shelf life on unused material of up to one (1) year. If our products are not found to conform to our high standards, notify SGM, Inc. immediately in writing. There is no other obligation expressed or implied and we assume no liabilities for damages of any kind. Suitability of the product for an intended use shall be solely up to the user.

#### **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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