

WATERPROOFING & ANTI FRACTURE MEMBRANE

Southcrete 1132



Southcrete 1132 is a single-component, water-based, brush or roller applied thin, load bearing liquid membrane. For use under thin set and thick bed mortar applications as a waterproof or anti-fracture membrane. The elastometric properties help reduce the risk of substrate cracks transferring above to the hard surface flooring. Southcrete 1132 is suitable for use under ceramic tile, dimension stone, vinyl tile, rubber tile, brick, parquet, and strip wood. Southcrete 1132 waterproof produces a continuous moisture barrier with outstanding adhesion to concrete slabs, concrete block, cured Portland cement mortar beds, cementitious tile backer board, and exterior grade plywood.

MANUFACTURER:

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USES:

- Interior or Exterior
- Vertical or Horizontal
- Concrete Substrates
- Crack Isolation Membrane
- Balconies over unoccupied space
- Shower stalls and tub surrounds
- Steamrooms
- Plywood (dry-interior, residential only)

LIMITATIONS:

Do not use as a wearing surface (underlayment only). Do not apply to surfaces that may go below 40°F (4.5°C) during the first 72 hours after application. Do not use as a leveling or patching underlayment. This liquid membrane must never be applied over 1/8" (3.2mm) thick.

PREPARATION:

Detailed installation procedures may be found in the TCNA Handbook and shall conform to ANSI 108.13.

CONCRETE and CEMENT SUBFLOORS:

Concrete must be 28 days cured and free of moisture. Surfaces must be free of any wax, dust or paint over spray. Hence, any further cleaning shall be done by sanding, scraping or scarifying the surface to assure proper bonding. Surface may be cleaned by using SGM Safe Clean Crystals and then neutralized. Smooth steel troweled concrete should be roughened prior to

installation. For hot and dry conditions, lightly dampen surface with water leaving no puddles of water. The waterproof electrometric properties permit the installation of hard surfaces to substrates subject to deflection up to 1/240th of the span. Leave a gap of 3/16" (4.8mm) around all vertical abutments and pre-fill with liquid membrane. This shall be done wherever a vertical surface meets a horizontal surface, such as curbs, columns, drains or other protrusions. Any cracks or voids in the substrate including honeycombs, etc., shall be treated with the appropriate cement based patching compound.

PLYWOOD / WOODEN SUBSTRATES:

All plywood shall be APA exterior grade, free of dust, oil and any other foreign matter. The typical floor system shall consist of joists not exceeding 16" maximum spacing on center and a sub floor minimum of 1" thick. Refer to ANSI AN-3.4.1 for detailed instructions for framing and underlayment. All floors shall be engineered so that the maximum deflection does not exceed 1/360 of the span in accordance with applicable building code provisions for floors and floor loading. Leave a gap of 3/16" (4.8mm) between panels, and 3/16" (4.8mm) around all vertical abutments. These gaps must be pretreated by filling with liquid membrane.

TEXTURE & COLOR:

Viscous yellow liquid.

APPLICATION:

Mist or wet surface so they are damp but free of any standing water. Liquid membrane may be applied by brush or roller. Pre-coat all edges, corners, wall and protrusions with a heavy coat of liquid membrane extending it 6" (15.2cm) onto the slab and 6" (15.2cm) up the vertical surface. Apply the liquid membrane as a continuous even film with overlapped strokes. After first

coat becomes dry, usually in 1½ to 2 hours, inspect membrane for voids or pinholes. Fill any voids with additional material and apply the second coat with strokes at right angles to those for first coat. A minimum dried coating thickness of 1/32" (.79mm) is needed. The wet membrane thickness needs to be at least 3/64" (1.2mm). While applying liquid membrane, check the depth of the membrane occasionally with a wet film thickness gauge.

If the installation is stopped long enough for the liquid membrane to cure, the new work must overlap previous work by 6 inches.

EXPANSION, CONSTRUCTION, CONTRACTION, CONTROL & ISOLATION JOINTS:

Movement joints are necessary for the success of most installations. Many methods are necessary due to various structural systems and job related conditions. Detailed installation procedures may be found in the TCNA Handbook for movement joint design essential EJ171-03. Do not bridge joints that are designed to allow for movement. Any movement joint should be carried through any finishing material. Apply a minimum 3/64" (1.2mm) of the liquid membrane over the joint and substrate following the detailed instructions. Embed the fiberglass mesh tape into the SC1132 and ensure that the SC1132 completely wets out the mesh tape. Fill all voids and apply a second coat at right angles to those of the first coat. Install tile work onto the membrane but do not bridge the joint. After the tile work is set properly, fill the joint with any specified sealant, following the manufacturer's instructions.

SHRINKAGE CRACKS:

For hairline shrinkage cracks up to 1/8" (3.2mm) or less, no special treatment is necessary. Pre-fill the cracks during the

installation of liquid membrane to provide full 3/64" (1.2mm) in thickness above the crack. Embed the fiberglass mesh tape into the SC1132, to ensure that the SC1132 completely wets out the mesh tape. Fill all voids and apply a second coat at right angles to those of the first coat. Cracks in excess of 1/8" (3.2mm) should be treated the same as expansion joints. Detailed installation procedures may be found in the TCNA Handbook for movement joint design essential EJ171-03.

DRAIN APPLICATION:

Clamping ring type drains with weeping ability must be used as per ASME 112.6.3. Fiberglass mesh must be used on all shower pan applications. Cut the fiberglass mesh to the size of the shower stall area allowing for adequate material to turn up the wall a minimum of 6" above the shower floor. Cut a round hole in the center of the mesh to the size of the drain opening. Apply enough SC1132 liquid around and over the bottom of the drain clamp up to the drain opening. Place the fiberglass mesh tape over the wet SC1132 LIQUID and ensure that the SC1132 completely wets out the mesh tape. Fill all voids and apply a second coat at right angles to those of the first coat. When completely dry, apply a bead of sealant around the drain opening where the SC1132 terminates. Install top drain clamping ring to complete the installation.

CURING:

Tile work may begin after the liquid membrane is completely dry, usually 24 hours after application. Use SGM latex-Portland cement mortar such as Multi-crete, EGS 100% solids epoxy for the installation of ceramic tile or dimension stone. Allow membrane to cure a minimum of 72 hours above 65°F (18°C) prior to water- testing for leaks. To water test, plug drains and dam areas to be tested. Fill area with water. Place mark on wall or surrounding to monitor water level for leaks. Wait 24 hours: If level has dropped, thoroughly check around drain and points of flashing. Recover as necessary. KEEP FROM FREEZING.

APPLICABLE STANDARDS:

Conforms to: ANSI 118.10 - Load bearing, bonding, waterproof membranes for thin-set ceramic tile and dimension stone installation; ANSI 118.12 - Crack Isolation membranes for thin-set ceramic tile and dimension stone installation.

TECHNICAL DATA:

- Permeability ASTM E-96: 0.0013
- Water Vapor Transmission ASTM E-96: 0.0166

- Low temperature Flex & Crack
- Brindging ASTM 836 77F –to- 15F: No cracks
- Fungus and Microorganism:
- Does not support growth
- Seam Strength: 10lb / in width
- Tensile Strength: 4 N / mm2
- Elongation (500mm / minute): 350% at break
- Shore hardness: Shore A value of 70

CHEMICAL RESISTANCE:

Good resistance: To dilute acids, alkalies and salt solutions. **Medium resistance:** To oil **Poor resistance:** To organic solvents, oxidizing agents.

COVERAGE:

A 5-gallon unit (18.9L) of liquid membrane will cover approximately 200 sq.ft. (18.6m²) @ 3/64" (1.2 mm) of the wet membrane thickness.

A 1-gallon unit (3.78L) will cover approximately 40 sq.ft. (3.7m²) @ 3/64" (1.2 mm).

CLEANING:

Tools should be cleaned with water before allowing to dry.

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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