

# Thin Set Mortars / Adhesives / Additives

## FLEXIBLE MORTAR ADDITIVE Southcrete 28



Southcrete 28 is a unique new acrylic additive, which when added to SGM premium thin-set mortar creates a super flexible mortar that will bond to many difficult to bond substrates. This system gives superior flexibility which permits the mortar to bridge minor cracks up to 1/16" in width on the same plane.

### MANUFACTURER:

SGM, Inc.  
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### USES:

Southcrete 28 may be used to set both vitreous and non-vitreous ceramic tiles for service requirements of residential and light commercial use. Applications include vertical or horizontal, both interior and exterior over properly prepared concrete, mortar beds, cementitious backed units, (APA) exterior grade plywood (interior use only), existing ceramic tile and stone, gypsum wall board, steel existing cutback adhesive, vinyl tiles (residential and light commercial only), and smooth concrete.

### LIMITATIONS:

Do not use for the installation of green, red, or black marble, or agglomerate tiles. Install only when temperature is at least 50° F. Do not use over any of the following: particleboard, Luan plywood, hardwood or parquet flooring, gypsum-based underlayments, drywall or plaster on exteriors. Do not use in areas subject to inclement weather within 48 hours after installation. When using Southcrete 28 premium thin-set mix in any area that will be wet continually (shower receptors, swimming pools, etc.) allow mortar to

cure a minimum of 14 days prior to any exposure.

### PREPARATION:

Detailed installation procedures may be found in the TCNA handbook and ANSI 108.5. Concrete and Cement Subfloors: All floors must be 28 days cured and free of moisture. Floors must be free of wax, oil, dust, or paint particles. Hence, any further cleaning shall be done by sanding or using SGM Safe Clean Crystals (sulfamic acid). Remove any liquid curing agents or concrete sealers. Plywood and Wooden Subfloors: All plywood shall be free of dust, oil and any other foreign matters. The typical floor or other system shall consist of joists spaced not over 16" O.C. and a double subfloor of 5/8" or thicker plywood or 1" normal boards. All floors shall be engineered so that the maximum deflection under normal or full loads does not exceed 1/360 of the span. A gap of 1/8" – 1/4" shall be left between top sheets of wood. Alternate Subflooring: To bond over existing ceramic tile, marble and resilient flooring, floors must be bonded well to its subfloor and free of any wax, oil, dust, or paint particles.

### MIXING:

SGM premium thin-set mortar should be added to approximately two (2) gallons of Southcrete 28 Flexible Mortar Additive (undiluted). Mix thoroughly to a smooth paste-like trowelable mix, allow mortar to slake ten (10) minutes, then remix while using a mechanical mixer, not exceeding 150 rpm, so not

to entrain air in the mortar. Do not add additional latex after mortar slakes. Do not re-temper mortar after initial set in bucket, discard and mix fresh materials.

### APPLICATION:

Apply the mortar liberally with the flat side of trowel. Use sufficient pressure to work mortar in good contact. Then comb with notched edge of trowel to leave uniform edges. Place tile while surface is wet and tacky. Spread only as much mortar as can be covered in 15 to 20 minutes or before surface dries. Place tiles with a twisting motion and beat lightly, before initial set takes place, to fully embed in the mortar. Mortar that has formed skin should be retroweled before applying tile. Use proper sized notched trowel (see diagram) to insure 100% coverage of mortar to tiles and substrate. Some irregular tiles require back-buttering. Industry standards require approximately 3/32" to 1/8" mortar bed thickness after beat in.

### GROUTING/CURING:

Mortar will obtain a minimum cure within 12-24 hours, depending on atmospheric conditions. Normal grouting can be done 48 hours after tiles have set.

### COVERAGE:

Coverage will vary depending upon type of tile, substrate and whether or not back-buttering is required.

Coverage is based on 50lb bag of thin-set mortar and two (2) gallons Southcrete 28 liquid.

**Setting requirements (sq. ft.)**

Trowel Size	50 lb. bag
¼ X ¼	75
¼ X 3/8	65
½ X ½	40

**APPLICABLE STANDARDS:**

Meets or exceeds ANSI 118.4 requirements when mixed with SGM's thin-set mortars.

**TECHNICAL DATA:**

Shearbond Strength	>600 psi
Pot Life:	3 hours
Compression Strength	>3000 psi
Water absorption	< 4%

**SHELF LIFE:**

One year in unopened properly stored container.

**CAUTION:**

EYE IRRITANT! 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 WITH CHILDREN.

**LIMITED WARRANTY:**

THIS PRODUCT SHALL BE IN ITS UNOPENED PACKAGE, THE KIND SPECIFIED HEREIN. THERE IS NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND, EXPRESSED OR IMPLIED (including WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). NO WARRANTY SHALL BE IMPLIED BY LAW. This LIMITED WARRANTY continues only until such time as the buyer opens the package and examines its contents. If the buyer, after opening the package and examining its contents, determines that the product is not of the kind

specified herein, the buyer should write to Southern Grouts & Mortars, Inc., 1502 SW 2nd Place, Pompano Beach, FL 33069, explaining the defect and enclosing a sample of the product. This shall be buyer's sole remedy for breach of warranty and such remedy shall be in lieu of any claim for damages, including incidental or consequential damages.

**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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