



**S-2000 (MULTI-PURPOSE) QUICK SET LATEX MORTAR**

**PRODUCT DESCRIPTION:**

S-2000 is a fast setting thin set latex mortar for floor and wall applications. S-2000 is a special formulation designed for installations, which require a minimum amount of install time. The specially designed rapid strength developing characteristics of S-2000 allow grouting operation to begin within 2 to 4 hours after tile has been set. This product also contains a specially designed powdered latex system that only requires the addition of the appropriate amount of water to attain the proper working consistency. S-2000 meets or exceeds ANSI A118.4 and A118.11.

**USES:**

S-2000 quick setting mortar is recommended for setting all types of tile where minimum amount of installation time is required.

**LIMITATIONS:**

High temperatures and/or low humidity can affect working time. The working time for S-2000 is approximately 30 minutes at 68°F. Shelf life under normal storage conditions is 12 months. When installing porcelain pavers over plywood, flooring must be exterior-grade plywood that meets all ANSI guidelines. Floor deflection cannot exceed "L-over-360" under both dead and live loads.

**TECHNICAL DATA Physical Properties:**

|   |      |
|---|------|
| Shear bond strength                                 |      |
| Ceramic quarry, psi 7 day, dry                      | 190  |
| Ceramic quarry, psi 7 day, in water                 | 200  |
| Porcelain shear 7 day dry cure                      | 230  |
| Porcelain to plywood 7 day dry cure                 | 225  |
|   |      |
| Sag using 4" x 4" x 5/16" ceramic mosaics tile, in. | .000 |

Ambient Temperature affect on working characteristics

| Temperature  | Pot Life      | Open Time     | Clean-Up Time | Set Time  |
|--------------|---------------|---------------|---------------|-----------|
| 60°F (16° C) | 40-50 minutes | 20 minutes    | 20-30 minutes | 3-5 hours |
| 75°F (24° C) | 30-40 minutes | 20 minutes    | 20-30 minutes | 2-3 hours |
| 90°F (32° C) | 20-30 minutes | 10-15 minutes | 10-15 minutes | 2 hours   |

**INSTALLATION:**

**Substrates:** All substrate preparation and tile installation must be in accordance with the Tile Council of North America's Handbook for Ceramic, Glass, and Stone Tile Installation, ANSI A-108 and any other applicable specifications such as IBC or ICC to insure proper performance and longevity of the installation. Substrates include cured concrete, mortar bed, wood subfloor with mortar bed substrate, exterior grade plywood, dry wall, glass mesh mortar units and masonry.

**MIXING:**

Mix S-2000 slowly into clean potable water at a ratio of 1 ½ gallons of water per 50lb bag of S-2000 Quick Set, or about 3 ¼ fluid ounces per pound of powder; mix thoroughly until a trowel-able paste is obtained. (For best results add powder to liquid!) No slake time is required. The amount of water required will depend on temperature and/or humidity and may require slight adjustment only. Mix using a slow speed revolving bucket type mixer or similar mixer. Do not mix at high speed. Do not retemper S-2000.

**APPLICATION:**

1. Substrate must be clean and dust free before S-2000 is applied.
2. Apply S-2000 to substrate and trowel an area that can be set in 10 minutes taking temperature and humidity into consideration. (High temperature or low humidity can affect working time. The working time of this product after mixing is approximately 30 minutes at 68°F.)

**SETTING:**

Full coverage of the setting material on the back of the tile is desirable to prevent broken and cracked tile. The National Tile Contractors Association recommendation to accomplish full coverage is as follows: Apply mortar to substrate using the flat side of the trowel to fill any voids and "key" the material to the substrate. Using the proper sized notched trowel, comb the mortar evenly in one direction only. Do not "swirl" as this creates air entrapment areas behind the tile. Set the tile in the mortar with the edge of the tile parallel to the comb lines. To remove air voids, push the tile back and forth in the mortar perpendicular to the comb lines.

**CAUTION:**

Per ANSI A 108.02, Do not install tile in areas where the temperature is not maintained above 50°F (10°C) or the temperature is above 100°F (38°C). Mortar, substrate, tile, brick and stone temperatures must all be maintained between 50°F (10°C) and 100°F (38°C) before install and until cure is completed. **JOB FAILURES CAN RESULT FROM SETTING TILE ONTO SET MORTAR THAT HAS "SKINNED"**. Check any mortar, which has been on the substrate longer than 10 minutes by pressing a tile gently but firmly onto the troweled ribs of mortar. After setting a few tiles, remove a freshly set tile and inspect the tile back for proper transfer and coverage per ANSI A-108 requirements. If proper coverage is not obtained, pull tile immediately out of the mortar, re-comb the mortar and re-set on the back of the tile or remove and re-trowel new mortar. If retroweling mortar, reset a tile and recheck for proper coverage and transfer. Repeat the process throughout the installation every few tiles. Tile can be walked on and grouted in about 2 to 5 hours.

**PROTECTING NEW TILEWORK:**

To avoid damage to finished tilework, schedule floor installations to begin only after all structural work, building enclosure and overhead finishing work, such as ceilings, painting, mechanical and electrical work are completed. Keep all traffic off finished tile floors until it has fully cured or provide up to 3/4" thick plywood protection over Kraft paper to protect floors before installation materials have fully cured.

**COVERAGE:**

Sq. Ft./lb. at 3/32" to 1/8" bed thickness

2.0 to 2.25

**CLEAN-UP:**

Clean spills and tools with water. (Warm water with a small amount of SL-86 or detergent will ease clean-up operation.)

**COLORS:**

#910 White and #960 Gray

**PACKAGING:**

S-2000 is available in 25 lb and 50 lb bags.

**SPECIFICATIONS:**

Material: Thin set latex mortar for used for setting most types of ceramic tile on both horizontal and vertical surfaces, when rapid setting is required (can be grouted in 2 to 5 hour range depending on temperature), shall be S-2000. S-2000 consists of Type I Portland cement, specially graded silica aggregate (#7 on M.O.H. Scale of Hardness), water retention aid, anti-sag, anti-skinning aids and special accelerators; as manufactured by Summitville Tiles, Inc., Summitville, Ohio. Material shall meet or exceed ANSI A118.4 and A118.11.