



## S-1000 MP (MULTI-PURPOSE) THIN SET LATEX MORTAR

### PRODUCT DESCRIPTION:

S-1000 MP is a high quality multi-purpose thin set mortar formulated with an advanced powdered latex system, designed to provide superior bond and shear strength, freeze-thaw resistance, impact-resistance and reduced water absorption. The non-reemulsifying resin system in S-1000 MP also provides excellent workability. S-1000 MP meets or exceeds ANSI A118.1, A118.4 and A118.11.

### USES:

S-1000 MP multi-purpose thin set is recommended for setting all types of ceramic tiles, marbles, slate and granite. S-1000 MP is recommended for interior or exterior wall or floor applications.

### LIMITATIONS:

High temperature and/or low humidity will reduce open time up to 15 minutes. All traffic should be kept off tile for 48 hours when used as a floor mortar. Grouting operations should not be performed less than 24 hours after setting when used as a wall mortar. When installing porcelain pavers over plywood, flooring must be exterior-grade plywood that meets all ANSI guidelines. Floor deflection over which tile will be installed must be in conformance with the IRC and IBC building codes or applicable building codes. Any deflection recommendations provided by the tile or stone manufacturer must also be compared to building codes and the more stringent recommendations shall apply.

### TECHNICAL DATA: Physical Properties

Shear bond strength	
after 20 freeze/thaw cycles	
Wall tile, psi	350
Ceramic mosaics, psi	325
Shear bond strength	
Porcelain Shear, psi 7 day, dry	150
Porcelain Shear, psi 28 day, dry	300
Porcelain to Plywood, psi 7 day, dry	240
Porcelain to Plywood, psi 28 day, dry	250
Ceramic mosaics, psi 7 day, dry	300
Ceramic mosaics, psi 7 day, in water	200
Ceramic mosaics, psi 28 day, dry	375
Ceramic mosaics, psi 7 day, in water (no prior dry cure)	150
Quarry to Plywood, psi 7 day, dry	160
Quarry to Plywood, psi 28 day, dry	180
Sag using 4" x 4" x 5/16" ceramic mosaics tile, in.	.000
Open time of up to 30 minutes @ 73°F and 50% RH.	
Pot life approximately 80 to 90 minutes @ 73°F and 50% RH.	

### 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](#) 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:** S-1000 MP should be mixed with clean, cool potable water only. Place water in mixing container and add S-1000 powder to water. Do not mix by adding water to powder. Use enough water to give S-1000 a paste like consistency (after slaking) which is easy to trowel but will hang on an inverted trowel. Mix using a *slow* speed revolving bucket type mixer or a similar mixer. *Do not mix at high speed.* Re-mix

after slaking for the appropriate time (normally 5 to 10 minutes) and add more water or S-1000 MP powder if necessary.

**APPLICATION:**

Trowel only an area which can be set in 15 to 30 minutes, taking temperature and humidity into consideration. Extremely high temperatures and/or low humidity, however, can reduce the open time by up to 15 minutes. The pot life of this product is approximately 80 to 90 minutes at 73° F and 50% RH.

**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". 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 OCCUR FROM SETTING TILE ONTO THIN SET WHICH HAS "SKINNED"**. Check any mortar that has been on the substrate longer than 10 minutes by pressing a tile lightly but firmly onto the troweled ribs of mortar. Remove tile from mortar and check tile back for proper coverage. If proper coverage is not obtained, re-comb the mortar and retest or remove and trowel new material. **ALL TRAFFIC SHOULD BE KEPT OFF THE TILE FOR 48 HOURS WHEN S-1000 MP IS USED AS A FLOOR MORTAR. GROUTING SHOULD NOT BE PERFORMED LESS THAN 24 HOURS AFTER SETTING WHEN USED AS A WALL MORTAR.**

**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 of 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 2.5

**CLEAN-UP:**

Clean spills and tools with water. Warm water with a small amount of detergent will speed up clean-up operation.

**COLORS:**

#910 White and #960 Gray.

**PACKAGING:**

S-1000 MP multi-purpose thin set mortar is available in 25 lb and 50 lb bags.

**SPECIFICATIONS:**

Material: Thin set latex mortar for setting ceramic tile on vertical and horizontal surfaces shall be S-1000 MP, consisting of Type I Portland cement, specially graded silica aggregates (#7 on M.O.H. Scale of Hardness), water retention aid, anti-sag, anti-skinning aids and a specially blended dry latex with protective colloids; as manufactured by Summitville Tiles, Inc., Summitville, Ohio. Material shall meet or exceed ANSI A118.4 and ANSI A118.11.

Color: Color shall be #\_\_\_\_\_.