



## S-1200 MP (MULTI-PURPOSE) PREMIUM MEDIUM BED MORTAR

### PRODUCT DESCRIPTION:

S-1200 MP is designed for installation of large ceramic tiles, marble, granite and non-moisture sensitive stone over floors or walls. S-1200 MP is designed for interior or exterior applications. S-1200 MP is cement based formula that includes a unique specially designed powdered latex system that meets or exceeds ANSI A118.4 and A118.11 specifications for latex Portland cement mortar.

### USES:

This product can be used over clean masonry surfaces, cementitious backer board, gypsum drywall or exterior grade plywood APA grade, C-C plugged or better. (Plywood installations interior, non-wet areas only). S-1200 MP may be applied at a thickness of 1/4" to 3/4" max. The non-sinking characteristic of this medium bed mortar minimizes the need to re-level installed large tiles and stone.

### LIMITATIONS:

Do not use S-1200 MP over rubber, cutback adhesive, synthetic resilient flooring or strip wood floors, carpet or wood adhesives, Lauan plywood, particleboard, wafer board, Masonite®, metal, plastic or fiberglass. Do not use in either wet or exterior areas over wood substrates. Installation failure will result from wet wood. Do not apply over single sheet, plywood floors. 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. S-1200 MP should not be applied when the temperature of the area and substrate to be tiled is below 50° F. Ideal working temperature range is 50 to 70°F. Store S-1200 MP in dry locations only. Do not store in open containers.

### TECHNICAL DATA: Physical Properties

#### 7 day, dry cure PSI

Quarry Shear Bond	150
Quarry to Plywood	130
Porcelain Shear Bond	250
Marble to concrete	400
Compressive strength	1900

#### 28 day, dry cure PSI

Quarry shear	190
Quarry to Plywood	180
Porcelain Shear Bond	260
Marble to concrete	440
Compressive strength	3300

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 and masonry.

**Mixing:** S-1200 MP should be mixed with clean, cool potable water only. Mix by placing water in mixing container and adding powder to water. Add enough water to S-1200 MP to give it a paste like consistency (after slake) 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-1200 MP powder if necessary after initial slake. Do not retemper mortar after this adjustment has been made.

**APPLICATION:**

Be sure that the substrate is clean, dust free and dry before applying S-1200 MP. Apply S-1200 MP to the substrate with the appropriate sized notched trowel (1/2" radius medium bed mortar trowel), held at a 45° angle. Key mortar to the substrate using the flat back of trowel. Comb the mortar evenly in one direction only. Do not "swirl". Spread only an area that can be tiled in 10 to 20 minutes at 73°F and 50% relative humidity. Finished mortar thickness should be 1/4 to 3/4 inch after tile is set. Average pot life of S-1200 MP is 30 to 40 minutes at 73°F and 50% relative humidity. Do not set tile over mortar that has formed a surface skin. Do not use additional water to remix mortar.

**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 S-1200 MP which has "skinned". Check any mortar, which has been on substrate longer than 10 minutes by pressing tile lightly but firmly onto troweled ribs of mortar. To check mortar adhesion, remove tile from mortar and check the tile back for proper coverage per ANSI requirements. If proper coverage is not obtained, re-comb the S-1200 MP and retest or remove and trowel new material. ALL TRAFFIC SHOULD BE KEPT OFF THE TILE FOR 72 HOURS AT 73°F AND 50% RELATIVE HUMIDITY WHEN S-1200 MP IS USED AS A FLOOR MORTAR. GROUT SHOULD NOT BE APPLIED LESS THAN 24 HOURS AFTER TILE HAS BEEN SET AT 73°F AND 50% RELATIVE HUMIDITY.

**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.

**CLEAN-UP:**

Clean tools and excess materials from the face of the tile immediately while mortar is still fresh, with warm soapy water.

**COLOR:** Color shall be #910 White and #960 Gray.

**COVERAGE:**

The amount of coverage will depend on the type of tile, size of trowel notch and substrate. Average is 25 to 28 sq. ft. per 50 pounds with 1/2" radius medium bed mortar trowel.

**PACKAGING:**

50 lb bags.

**SPECIFICATIONS:**

Material: Medium bed latex mortar for setting ceramic tile on horizontal surfaces shall be S-1200 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 A118.11.