



S-1300 MP (MULTI-PURPOSE) THIN SET

PRODUCT DESCRIPTION:

S-1300 MP is a high quality multi-purpose thin set mortar formulated with a special powdered latex designed to provide superior bond and shear strength, freeze-thaw resistance, impact resistance and reduced water absorption. The non-reemulsifying resin system in S-1300 MP also provides excellent workability. S-1300 MP meets or exceeds ANSI A118.1, A118.4 and A118.11

USES:

S-1300 MP multi-purpose thin set is recommended for setting all types of ceramic tiles, marbles, slate and granite. S-1300 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 wall mortar. When installing ceramic tile over plywood, flooring must be exterior-grade plywood that meets all ANSI and Tile Council of North America 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

7 day, dry cure	PSI	N/mm ²
Quarry shear	230	1.6
Quarry to Plywood	240	1.7
Quarry to Concrete	270	1.9
Porcelain	240	1.7
Porcelain to Plywood	160	1.1
Porcelain to Concrete	310	2.1
Tensile mosaic to Concrete	248	1.7

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, tile over tile, wood subfloor with mortar bed substrate, exterior grade plywood, dry wall, glass mesh mortar units and masonry.

Mixing: S-1300 MP should be mixed with clean, cool potable water only. Add enough water to S-1300 MP to give it a paste like consistency which is easy to trowel but will hang on an inverted trowel (*approximately 1.5 gallons/ 50 pounds of mortar*). 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-1300 MP powder if necessary. Once this initial adjustment has been made, do not retemper mortar thereafter.

APPLICATION:

Trowel only an area that can be set in 15 to 30 minutes, taking temperature, surface temperatures and humidity into consideration. Extremely high temperatures 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.

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-1300 MP which has "skinned". Check any mortar, which has been on the substrate longer than 10 minutes by pressing tile lightly but firmly onto troweled ribs of mortar. Remove the tile from the mortar and inspect the tile back for proper mortar coverage as required by ANSI and/or installations specifications. If proper coverage is not obtained, re-comb the S-1300 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-1300 MP IS USED AS A FLOOR MORTAR. GROUT SHOULD NOT BE APPLIED LESS THAN 24 HOURS AFTER WALL TILE HAVE 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 finished tile floors until floor mortar 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 cleaning operation).

COLORS:

#910 White and #960 Gray.

PACKAGING:

S-1300 MP multi-purpose thin set mortar is available in 50 lb. bags.

SPECIFICATIONS:

Material: Thin set latex mortar for setting ceramic tile on vertical and horizontal surfaces shall be S-1300 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.

Color: Color shall be #_____.