

S-777 THIN SET MORTAR

PRODUCT DESCRIPTION:

S-777 is a dual purpose thin set mortar for floors and walls. S-777 has good compressive strength, high bond strength, easy to trowel and meets or exceeds ANSI A118.1 requirements. S-777 exhibits superior bond strength, excellent freeze-thaw stability, increased flexural strength and water resistance when mixed with S-800 in place of water. In addition, when mixed with S-810, the S-777 exhibits superior flexibility. When S-777 is mixed with S-800 or S-810 the system meets or exceeds both ANSI A118.4 and A118.11 specifications.

USES:

S-777 is recommended to set any type of ceramic tile specified for floor and wall installation when tile is set in accordance with the Tile Council of America's "Handbook for Ceramic Tile Installations". S-777 may be used over concrete, dry walls, glass mesh mortar units and wood subfloor with mortar bed substrate, masonry, ceramic tile or brick.

LIMITATIONS:

S-777 should cure 48 hours before pedestrian traffic is permitted. If installation is in a high moisture area 14 days to 28 days is required.

Extremely high temperatures or low humidity can reduce open time by as much as 20 minutes.

TECHNICAL DATA: Physical Properties

S-777 meets or exceeds ANSI A118.1 specifications.

Shear Strength to Quarry Tile	
7 day dry	104 psi
7 day water immersion	88 psi
7 day dry, 7 day water immersion	89 psi
4 week dry	146 psi
Shear Strength to Wall Tile	
7 day dry	238 psi
7 day water immersion	163 psi
7 day dry, 7 day water immersion	260 psi
4 week dry	272 psi
4 week freeze thaw	284 psi
Shear Strength to Mosaic Tile	
7 day dry	249 psi
7 day water immersion	118 psi
7 day dry, 7 day water immersion	161 psi
4 week dry	204 psi
4 week freeze thaw	127 psi
Compressive strength (28 days)	greater than 3500 psi
S-777/S-800 MORTAR	
Shear Strength to Quarry Tile	
7 day dry	151 psi
Shear Strength, Quarry Tile to Plywood	
7 day dry	278 psi
Shear Strength, Quarry Tile to Stainless Steel	
7 day dry	101 psi
Open time (up to)	40 min.
Pot Life	2-3 hours

INSTALLATION:

Substrate: Substrate must be free from dust, oil, or grease and meet TCA specifications.

Mixing: Mix S-777 slowly into clean, cool, potable water or latex additive (for superior bond strength, excellent freeze-thaw stability, increased flexural strength and water resistance). Mix thoroughly until a workable (paste like) consistency is obtained. NOTE: For best results add S-777 to water or latex additive, not water or latex additive to S-777. Allow to slake for 5-10 minutes depending on temperature or humidity, then remix adding liquid or S-777 powder as necessary. Liquid to S-777 ratio should be approximately 4 fluid ounces of water per pound or 6 quarts water per 50 pounds of S-777, 8 fluid ounces of latex additive per pound or 2 gallons latex additive per 50 pounds S-777. Amount of water will vary with temperature and humidity. Mix using a slow speed revolving bucket type mixer or similar mixer. **DO NOT MIX AT HIGH SPEED.**

APPLICATION:

Apply S-777 to substrate and trowel an area that can be set in 20-45 minutes taking temperature and humidity levels into consideration.

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.

NOTE: Extremely high temperatures or low humidity can reduce the open time by up to 20 minutes. Always make sure mortar is soft and sticky before applying tile. The pot life of this product is approximately 2-3 hours.

CAUTION:

JOB FAILURE CAN RESULT FROM SETTING TILE ONTO THIN SET MORTAR WHICH HAS "SKINNED". Check any mortar which has been on the substrate longer than 15 minutes by pressing a tile gently but firmly onto the trowelled ribs of mortar. If proper coverage is not obtained, recomb the mortar and retest, or remove and trowel with new mortar. ALL TRAFFIC SHOULD BE KEPT OFF THE TILE FOR 48 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 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 2.0-2.5

CLEAN-UP:

Clean spills and tools with water before material dries. Cured S-777 latex film is practically impossible to remove with water.

COLORS:

S-777 is available in #960 Gray and #910 White.

PACKAGING:

S-777 is available in 50-lb. bags.

SPECIFICATIONS:

Material: Thin set mortar used for setting most types of ceramic tile on vertical or horizontal surfaces shall be S-777, consisting of Type I portland cement, specially graded silica aggregate (#7 on M.O.H. Scale of Hardness), water retention agents, anti-skinning agents, anti-sag and adhesion-promoting agents as manufactured by Summitville Tiles, Inc., Summitville, Ohio. Material shall conform to ANSI A118.1.

Color: Color shall be # _____.



Summitville[®]

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