SimpleSet® Pre-Mixed Thin-Set Mortar



1. Product Name

SimpleSet® Pre-Mixed Thin-Set Mortar

2. Manufacturer

Custom® Building Products

3. Product Description

A no-mix, no-mess alternative to traditional thin-set mortar. Easy to use and recommended for ceramic, porcelain, and stone tile up to 8″x8″ (20 x 20 cm). Tiles with one side up to 15″ (28 cm) may be applied, but require a longer dry time. For interior wall and floor installations.

Key Features

- Ready to use
- No mixing, no mess
- Just spread and set
- Exceeds ANSI A136.1 Type I

Suitable Substrates

- For interior dry areas
- Suitable for some wet areas such as tub surrounds and shower walls.
- Concrete, masonry
- Plaster, gypsum wallboard (dry areas)
- Exterior Grade Plywood (dry areas)
- Existing ceramic tile

Limitations to the Product

- Do not bond tile directly to lightweight concrete, gypsum surfaces, hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic or OSB panels. Contact Technical Services.
- Do not use over non-porous surfaces such as waterproofing membranes, coated tile backer board and vinyl flooring
- For clear or translucent glass, CUSTOM recommends Glass Tile Premium Thin-Set Mortar. When setting glass tile larger than 6" x 6" (15 x 15 cm), contact Custom's® Technical Services for recommendations.
- Can be used with tile with one side up to 15" (38 cm), but dry time significantly increases.
- Do not use on shower floors or areas exposed to prolonged water exposure or steam.
- Do not use to install fixtures, ungauged stone tile, Saltillo pavers or clear or translucent glass tile.
- Do not use to install backerboards to subfloors, over a waterproof membrane or to install heating mats or coils. We recommend using a Custom® polymer-modified mortar.
- When setting moisture sensitive stone, tile or agglomerates use EBM-Lite™ Epoxy Bonding Mortar 100% Solids.
- Do not use more material than is necessary to bond tiles. If floor is uneven use a LevelQuik® or LevelLite® Self Leveling Underlayment.
- Installation dry time varies depending on tile size and density, substrate porosity and ambient conditions.
- Do not use to apply tile larger than 8" x 8" (20 x 20 cm). A tile with one side up to 15" (38 cm) may be applied if the shorter side does not exceed 8" (20 cm). Longer drying time is expected when applying to a tile with one side greater than 15" (38 cm).

Packaging

- 1 gallon (3.78 L) pail
- 3-1/2 gallon (13.25 L) pail
- Available in white or gray

4. Technical Data

Applicable Standards

American National Standards Institute (ANSI) ANSI A108.4 and A136.1, Type 1 American National Standards for the Installation of Ceramic Tile

Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product can contribute towards LEED® v3 certification:

- Up to 2 points towards MR Credit 5, Regional Materials
- Up to 1 point towards IEQ Credit 4.1, Low-Emitting Materials - Adhesives & Sealants

5. Instructions

General Surface Prep

USE CHEMICAL-RESISTANT GLOVES, such as nitrile, when handling product.

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt or any contaminants. Concrete must be cured 28 days and accept water penetration. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Plywood flooring must be structurally sound and meet all ANSI and deflection requirements. For questions about proper subfloor installation, call Technical Services. Smooth concrete surfaces, existing glazed tile, terrazzo, or polished stone should be roughened or scarified. Roughen the surface by sanding or scarifying, rinse and allow to dry. Expansion joints should never be bridged with setting material. Do not sand flooring materials containing asbestos. Ambient temperature, surfaces and materials should be maintained at a temperature above 50° F (10° C) or below 100° F (38° C) for 72 hours

Bonding To Concrete Surfaces

Concrete or plaster must be fully cured and accept water

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penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved; if water beads, surface contaminants are present, and loss of adhesion may occur. Contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be mechanically abraded to ensure a good bond. For residential service rating, see TCNA F1160.

Bonding to Plywood and OSB Surfaces

Plywood floors must be structurally sound and must meet all ANSI A108.01 Part 3.4 requirements. Maximum allowable deflection: L/360 tile L/720 stone. See TCNA F142. For questions about proper subfloor installation, call Custom technical services.

Movement Joint Placement

Expansion joints and cold joints, as described in ANSI A108.01, should never be bridged with setting material. They must be brought through the tile work and filled with an appropriate elastomeric sealant, such as Custom's 100% Silicone. Contact Custom Technical Services for the proper treatment of control or saw cut joints. Refer to TCNA EJ171, F125 and F125A for placement of perimeter and field soft joints in the tile assembly.

Application of Product

INSTALLATION TO CONFORM TO ANSI A108.4. Use a properly-sized notch trowel to ensure proper coverage under tiles. Using flat side of trowel, apply skim coat of SimpleSet with appropriate size trowel. Apply additional SimpleSet with notch side of trowel held at a 45° angle to the surface, combing in one direction. Press tile firmly into place in a perpendicular motion across ridges, moving back and forth. Perpendicular pressing flattens ridges and closes valleys allowing maximum coverage. With some tile, back-buttering is advisable. Adjust tile promptly and beat in with a beating block and rubber mallet. Periodically pull up a tile and check the back to ensure complete coverage with the SimpleSet. Do not apply more than can be covered with tile in 30 minutes. If SimpleSet starts to skin over (not sticky), retrowel before setting tile. Do not apply more than is necessary to achieve a sufficient bond. SimpleSet thickness should not be more than 3/16" thick.

Curing of Product

Minimum dry time for 8" x 8" (20.3 cm x 20.3 cm) tile is 24 to 72 hours before applying grout. Dry time will be extended if using larger tiles, bonding to non-porous surface, in high humidity, or if temperature is below 60 degrees F (15 degrees C). Do not apply excess adhesive.

Cleaning of Equipment

Remove fresh mortar from tile surfaces with a damp cloth. Clean tools in warm, soapy water.

Health Precautions

Contains Petroleum Distillates. If ingested, do not induce vomiting. Call a physician immediately. Use with adequate ventilation. Nonflammable. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. KEEP FROM FREEZING.

6. Size & Availability

Location	Item Code	Size	Color	Package
USA	STTSW1	1 gal. (3.78 L)	White	Pail
USA	CTTSG1	1 gal. (3.78 L)	Gray	Pail
USA	STTSW3	3-1/2 gal. (13.25 L)	White	Pail
USA	CTTSG3	3-1/2 gal. (13.25 L)	Gray	Pail
Canada	CSTTSW1	1 gal. (3.78 L)	White	Pail
Canada	CCTTSG1	1 gal. (3.78 L)	Gray	Pail
Canada	CSTTSW3	3-1/2 gal. (13.25 L)	White	Pail
Canada	CCTTSG3	3-1/2 gal. (13.25 L)	Gray	Pail

7. Product Warranty

Custom® Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's® sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's® printed instructions. Custom® makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another. For details and complete warranty information, visit /reference-library/warranties.aspx.

8. Product Maintenance

Properly installed product requires no special maintenance.

9. Technical Services Information

For technical assistance, contact Custom® Building Products.

10. Filing System

Additional product information is available from the manufacturer upon request.

Related Products

SimpleFix® Ceramic Tile & Fixture Caulk
SimpleGrout® Pre-Mixed Grout
SimplePrep® Pre-Mixed Floor Patch

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Coverage Chart

SQUARE FOOT COVERAGE PER GALLON (SQUARE METER PER 3.8 L)

Trowel Size	Min Coverage	Max Coverage
3/16" x 5/32" (5 x 4 mm) V-Notch for tile up to 6" x 6" (15 x 15 cm)	40 ft² (3.7 M²)	44 ft² (4.1 M²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) Square-Notch for tile up to 12" x 12" (30 x 30 cm)	20 ft² (1.9 M²)	25 ft² (2.3 M²)
1/4" x 3/8" x 1/4" (6 x 9.5 x 6 mm) Square-Notch for tile up to 16" x 16" (30 x 30 cm)	14 ft² (1.3 M²)	17 ft² (1.6 M²)

Recommended minimum coverage (80% for dry areas and 95% for wet areas). Back buttering may be necessary. Note that mortar coverage does not include backbuttering tiles. When backbuttering, consider the tile underside pattern and depth to estimate thickness and usage to add to your estimate. Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more sizes, use the material calculator at CustomBuildingProducts.com or contact CUSTOM Technical Services at 800-282-8786.