

SureBond Unsanded Thin-Set Mortar



1. Product Name

SureBond Unsanded Thin-Set Mortar

2. Product Description

Pure coat for setting tiles using the mortar bed method. Water-retentive formula eliminates the need to soak tiles. Ideal for setting fixtures and decorative items.

Key Features

- Meets ANSI A118.1 without additive
- Meets ANSI A118.4 and A118.11 when mixed with Thin-set Mortar Admix

Suitable Substrates

When Mixed with Water ANSI A118.1 Specifications:

- Interior floors, walls, countertops
- Concrete, mortar beds, masonry, Portland cement plaster
- Gypsum wallboard (dry areas)
- Water-resistant wallboard

Mix with Thin-Set Mortar Admix ANSI A118.4 and A118.11 Specifications:

- Interior and exterior floors, walls, countertops
- Areas subject to freeze-thaw cycles
- Exterior Grade Plywood (interior residential and light commercial dry areas)
- Existing ceramic tile
- Sheet vinyl flooring, VCT
- Plastic laminates
- Cutback adhesive

Limitations to the Product

- Do not bond directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic or OSB panels.
- When setting moisture sensitive natural stone, cement or agglomerate tile use EBM-Lite™ Epoxy Bonding Mortar 100% Solids or CEG-Lite™ 100% Solids Commercial Epoxy Grout.
- Do not use to install resin-backed stone use EBM-Lite™ Epoxy Bonding Mortar 100% Solids, CEG-Lite™ 100% Solids Commercial Epoxy Grout or contact Custom's® Technical Services for recommendations.
- When setting glass tile larger than 6" x 6" (15 x 15 cm), contact Custom's® Technical Services for recommendations.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm), contact Custom® Technical Services for recommendations regarding subfloor deflection requirements.
- Not for use in water submerged installations.

Packaging

- 40 lb (18.2 kg) bags
- White

3. Technical Data

Applicable Standards

American National Standards Institute (ANSI) - ANSI A108.5, A108.1, A118.1, A118.4 and A118.11 of the American National Standards for the Installation of Ceramic Tile

ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester

Resilient Floor Covering Institute (RFCI) "Recommended Work Practices for Removal of Resilient Floor Coverings"
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

Movement Joint Placement

Expansion joints, control joints and cold joints should never be bridged with setting material. They must be brought through the tile work and filled with an appropriate elastomeric sealant.

Mixing Ratios

Thoroughly mix 2 gallons (7.57 L) of clean, cool water and a 40 lb (18.2 kg) bag of mortar to a smooth, paste-like consistency.

Mixing Procedures

Mix by hand or use a low speed (150-200 RPM) 1/2" (13 mm) drill. Let slake or stand 5-10 minutes, stir again and use. Stir occasionally to keep fluffy, but do not add water. When properly mixed, troweled ridges will stand with no slump.

Application of Product

Installation must conform to ANSI A108.1A. Use a properly-sized notch trowel to ensure proper coverage under tiles. Using the flat side of the trowel, apply a skim coat of mortar to the surface. With the notch side of the trowel held at a 45° angle, apply additional mortar to the surface, combing in one direction. Press the tile firmly into place in a perpendicular motion across ridges, moving back and forth. The perpendicular motion flattens ridges and closes valleys, allowing maximum coverage. Adjust the tile promptly and beat it in with a beating block and rubber mallet. Periodically pull up a tile and check the back to ensure proper adhesive coverage. If the material has skinned over (not sticky to the touch), recomb with the notch

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trowel; if too dry, remove and replace the dry material with fresh material. Thin-set mortar should not be used to fill low spots in the flooring. For large format tile and uneven flooring, use mortars designed for medium bed applications. Mortar thickness should be less than 1/16" thick.

Curing of Product

Curing time is affected by ambient and surface temperatures and humidity. Use the following as a guideline. Allow 24 hours before grouting and light traffic, and 7-10 days before heavy or vehicular traffic. Before exposure to heavy or vehicular traffic, assure assembly is rated "Heavy or Extra Heavy" per TCNA Service Requirements. As necessary, use plywood or other load distributing protection when moving heavy equipment across tiled assembly.

Cleaning of Equipment

Clean with water before material dries.

Storage

Store in a cool, dry area.

Health Precautions

Contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. This product contains free silica. Do not breathe dust; wear NIOSH approved respirator.

Conformance to Building Codes

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

4. Size & Availability

Item Code	Size	Color	Package
SBW40*	40 lb (18.2 kg)	White	Bag

5. 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>.

6. Product Maintenance

Properly installed product requires no special maintenance.

7. Technical Services Information

For technical assistance, contact Custom® Building Products.

8. Filing System

Additional product information is available from the manufacturer upon request.

Related Products

Polyblend® Plus Sanded Grout

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Coverage Chart

SQUARE FOOT COVERAGE PER 40 LB BAG (SQUARE METER PER 18.2 KG)

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions. For more trowel sizes, please use the material calculator at CustomBuildingProducts.com or contact CUSTOM Technical Services at (800) 282-8786.

Trowel Size	Min Coverage	Max Coverage
3/16" x 5/32" (5 x 4 mm) V-Notch	150 sq. ft. (15.7 M ²)	170 sq. ft. (15.7 M ²)

Mortar coverage between the substrate and tile underside is required to be $\geq 80\%$ for dry areas and $\geq 95\%$ for wet areas and exteriors with all tile edges properly supported with mortar and in a minimum of $3/32"$ (2.38 mm) and a maximum of $1/4"$ (6mm) for mortars without an ANSI "H" rating. Note: Larger tiles, tiles with deep underside patterns and ungauged natural stone tiles may require larger notch sizes and may need to be flat back-troweled (formerly back buttered) or notched-back troweled to achieve proper coverage and mortar support. CUSTOM recommends testing to confirm adequate bonding mortar coverage. CUSTOM recommends testing to confirm adequate bonding mortar coverage.

When back troweling, consider the tile's underside pattern and depth to estimate thickness and usage to add to your estimate. For achieving proper mortar coverage see the following video: [Trowel & Error](#). (Also available in Spanish and Russian.) For information

For achieving proper mortar coverage see the following video: [Trowel & Error](#). (Also available in Spanish and Russian.) For information regarding back troweling, refer to The National Tile Contractors Association / Reference Manual & [Flat Back & Notched Back - Troweling \(TileTVS3 22.08\)](#)