

VERSASET® FORTIFIED THIN-SET MORTAR

1. Product Name

VersaSet® Fortified Thin-Set Mortar

2. Manufacturer

Custom Building Products
 13001 Seal Beach Blvd.
 Seal Beach, CA 90740-2757
 Customer Support: 800-272-8786
 Technical Services: 800-282-8786
 Fax: 800- 200-7765
 Email: contactus@cbpmail.net
custombuildingproducts.com

3. Product Description

VersaSet® is a high performance modified thin-set mortar that delivers good bond strengths for basic tile and natural stone installations over most common types of surfaces. Meets ANSI A118.4 and A118.11 mixed with water. No need for additives.

USES — TILE TYPES

- Vitreous, semi-vitreous or absorptive tile: ceramic, mosaic, quarry, cement
- Brick and mini-brick
- Precast cement-based terrazzo
- Gauged natural stone tile

AREAS OF USE

- Interior or exterior floors, countertops, walls
- Concrete, mortar beds, masonry, Portland cement plaster
- Backerboards such as WonderBoard®
- Exterior grade plywood (interior residential and light commercial dry areas)
- Gypsum wallboard (dry areas)
- Existing ceramic tile

PACKAGING

- 50 lb (22.68 kg) bags
- Gray or white

LIMITATIONS

- Do not bond directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic and OSB panels.
- When setting moisture sensitive stone, tile or agglomerates (check with manufacturer) use EBM-Lite™ Epoxy Bonding Mortar—100% Solids.



- Do not use to install resin-backed stone.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm), contact Technical Services for recommendations regarding subfloor deflection requirements.

4. Technical Data

APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108.5; A118.4; A118.11 of the American National Standards for the Installation of Ceramic Tile

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

TECHNICAL PROPERTIES

Exceeds ANSI A118.4 and A118.11.

Property	Results
Pot life	3 hours
Open time	>45 minutes
Adjustment time	>25 minutes
Shear bond @ 28 days	
Bisque tile	450 psi (35.7 kg/cm ²)
Porcelain Tile	265 psi (20.4 kg/cm ²)
Quarry tile to plywood	170 psi (14 kg/cm ²)

ENVIRONMENTAL CONSIDERATIONS

Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.



5. Installation

PREPARATORY WORK

General Surface Preparation:

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. 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.

Cementitious Surfaces:

Concrete or plaster must be fully cured and accept water 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. The contaminants should be 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 roughened to ensure a good bond.

Plywood Substrates:

Plywood floors including those under resilient flooring must be built to industry standards. Deflection not to exceed L/360. For questions about proper subfloor installation, call Technical Services.

WonderBoard® Backerboard:

As a superior alternative to an additional layer of plywood, WonderBoard backerboards may be installed over plywood subfloors. Refer to the respective data sheet for installation information.

Existing Ceramic Tile, Resilient Flooring or Plastic Laminates:

Plywood flooring must be structurally sound and meet all ANSI and deflection requirements. Resilient flooring or plastic laminates must be well bonded, clean and free of all contaminants. Roughen the surface by sanding or scarifying, rinse and allow to dry. Do not sand flooring containing asbestos. For existing well-bonded ceramic tile, mechanically abrade with carborundum stone. Rinse and allow to dry. When sanding we recommend the use of an approved respirator.

Expansion Joints:

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.

Cutback Adhesive over Concrete:

Adhesive layers must be removed as they reduce mortar bond strength to cement surfaces. Use extreme caution as adhesives may contain asbestos fibers. Do not sand or grind adhesive residue, as harmful dust may result. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate into the concrete. Adhesive residue must be wet-scraped to the finished surface of the concrete, leaving only the transparent staining from the glue.

Do a test bond area first, to determine desirable results. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings" for further information.

METHODS

Mixing

Thoroughly mix 6 quarts (5.68 L) clean, cool water and a 50 lb. (22.68 kg) bag of VersaSet together to a smooth, paste-like consistency. 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 more water. When properly mixed, troweled ridges will stand with no slump.

Application

INSTALLATION TO CONFORM TO ANSI A108.5. Use proper sized notch trowel to ensure 100% coverage under tiles. Using flat side of trowel, apply skim coat of mortar to the surface. Apply additional mortar with notched 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 block and rubber mallet. Mortar can be applied up to 1/4" (6 mm) thick after beat in. For thicker applications, use a medium bed mortar. Periodically pull up a tile and check the back to ensure complete coverage with the adhesive. Do not spread more material than can be tiled in 15 minutes or while material has wet tack (sticky to the touch). If material has skinned over (not sticky), recomb with notched trowel. If too dry, remove and replace with fresh material. Material in bucket will remain workable in excess of 4 hours.

Curing

Allow to cure for 24 hours before grouting or light traffic, depending upon temperature and humidity. Polyblend® or Prism® Grout is recommended.



Coverage

SQUARE FOOT COVERAGE PER 50 LB BAG (SQUARE METER PER 22.68 KG)	
TROWEL SIZE	COVERAGE
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) Square-Notch	80 – 90 sq. ft. (7.4 – 8.4 M ²)
1/4" x 3/8" x 1/4" (6 x 9.5 x 6 mm) Square-Notch	60 – 67 sq. ft. (5.6 – 5.2 M ²)
1/2" x 1/2" x 1/2" (13 x 13 x 13 mm) Square-Notch	42 – 47 sq. ft. (3.9 – 4.4 M ²)

Clean-Up

Clean with water before material dries.

Storage

Store in a cool dry area.

SAFETY

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.

BUILDING CODES

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

6. Availability & Cost

Contact the manufacturer or visit custombuildingproducts.com for information about product cost and availability.

	ITEM CODE	SIZE	COLOR	PACKAGE
USA	VSG50	50 lb. (22.68 kg)	Gray	Bag
USA	VSW50	50 lb. (22.68 kg)	White	Bag
Canada	CVSG50	50 lb. (22.68 kg)	Gray	Bag

7. Limited 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 custombuildingproducts.com.

8. Maintenance

Properly installed product requires no special maintenance.

9. Technical Services

For technical assistance, contact Custom Building Products or visit custombuildingproducts.com.

10. Filing Systems

Additional product information is available from the manufacturer upon request.

Related Products

Polyblend® Grout

