

OMNIGRIP® MAXIMUM STRENGTH ADHESIVE

1. Product Name

OmniGrip® Maximum Strength Adhesive

2. Manufacturer

Custom Building Products

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3. Product Description

OmniGrip Maximum Strength Adhesive is a flexible, high polymer adhesive for thin-set tile and stone applications. Designed to resist prolonged water exposure, OmniGrip has 33% less shrinkage than traditional adhesives and can be used for ceramic, mosaic, quarry, pavers, gauged slate, porcelain and gauged stone tile installations.

Uses for OmniGrip include:

- Exterior walls to 8' (2.4 m) high in covered areas with intermittent water exposure
- Ceramic floor tiles to 16" x 16" (40 x 40 cm) and stone floor tiles to 12" x 12" (30 x 30 cm)
- Interior floors, walls, counters
- Concrete, masonry, plaster
- Gypsum wallboard in dry areas only
- WonderBoard®, cement backerboards
- Exterior grade plywood in dry interior areas
- Existing ceramic tile
- Resilient flooring
- Existing plastic laminate

COMPOSITION & MATERIALS

OmniGrip Maximum Strength Adhesive is a ready-to-use, proprietary blend of acrylic copolymers, calcium carbonate and inorganic materials.

PACKAGING

- 1 gal (3.78 L) pail
- 3.5 gal (13.25 L) pail
- 1 qt (0.95 L) pail – Canada only
- Color is white only

BENEFITS

- 33% less shrinkage than traditional adhesives for maximum coverage and bond
- Lightweight – Weighs 33% less than traditional adhesives
- Exceeds ANSI A136.1, Type 1 standards for prolonged water exposure
- Suited for ceramic floor tiles to 16" x 16" (40 x 40 cm) and stone floor tiles to 12" x 12" (30 x 30 cm)
- Flexible for increased crack resistance

LIMITATIONS

- Do not bond directly to hardwood, lauan 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, check with Custom Building Products; use EBM-Lite™ Epoxy Bonding Mortar—100% Solids, CEG-2000™ 100% Solids Commercial Epoxy Grout or CEG-Lite™ 100% Solids Commercial Epoxy Grout
- Do not use to install resin backed marble or stone; use EBM-Lite™ Epoxy Bonding Mortar—100% Solids, CEG-2000™ 100% Solids Commercial Epoxy Grout or CEG-Lite™ 100% Solids Commercial Epoxy Grout.
- Do not use for steam rooms, shower floors, underwater, or in areas exposed to hydrostatic pressure.
- Do not use over wood surfaces in exterior or wet areas.
- Do not use to install fixtures, ungauged natural stone, gauged stone thicker than 3/8" (9.5 mm), transparent glass tile, Saltillo pavers or lug back tile on floors.
- Can be used outdoors in covered areas and on walls to 8' (2.4 m) high.

4. Technical Data

APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108, A118 & A136 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

Results based on applicable ANSI test specifications

Property	Results
Adjustment time	60 minutes
Open time	60 minutes
Shear strength	
Type 1 water immersion	Exceeds
Freeze/thaw	Stable
Stain test	Pass
Impact test	Pass
Heat resistance	Pass

ENVIRONMENTAL CONSIDERATIONS

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

Use of OmniGrip Maximum Strength Adhesive can contribute to LEED® certification.

5. Installation

PREPARATORY WORK

General Surface Preparation:

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives and other contaminants that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt and other contaminants. Ambient temperature, surfaces and materials should be 50 – 100° F (10 – 38° C) until adhesive cures.

Cementitious Surfaces:

Concrete or plaster must be porous, fully cured and must 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. 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.

Plywood Substrates:

Plywood floors must be structurally sound and must meet all ANSI requirements and deflection requirements. For questions about proper subfloor installation, call Custom Building Products.

WonderBoard Backerboard:

As a recommended alternative to additional layers of plywood, WonderBoard backerboard may be installed over plywood subfloors. Refer to technical data sheets for installation information.

Existing Ceramic Tile, Resilient Flooring or Plastic Laminates:

Plywood flooring must be structurally sound and must meet all ANSI and deflection requirements. Resilient flooring or plastic laminates must be well bonded, as well as clean and free of all contaminants. Roughen the surface by sanding or scarifying; rinse and allow to dry. Do not sand flooring that contains asbestos. For existing well bonded ceramic tile, mechanically abrade the surface. Rinse and allow to dry. When sanding, an approved respirator should be used.

Expansion Joints:

Construction, contraction, expansion and isolation 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. Contact Custom Building Products for the proper treatment of control or saw cut joints. Refer to TCNA EJ171.

Cutback Adhesive Over Concrete:

Thick accumulations, powdery, brittle or weak adhesive layers must be removed. 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 weaken or soften the adhesive and may cause it to penetrate into the concrete. The remaining residue should be no thicker than a coat of paint and should be almost transparent. Always install an adequate number of properly located test areas.

METHODS

Application

Installation must conform to ANSI A108.4. Use a properly sized notch trowel to ensure proper coverage under tiles.

Using the flat side of the trowel, apply a skim coat of adhesive to the surface. With the notch side of the trowel held at a 45° angle, apply additional adhesive 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. With some tile, back buttering is advisable. Adjust the tile promptly and beat it in with a 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), re-trowel before setting tile.

Drying Time

Allow to cure for a minimum of 24 hours before grouting, depending upon temperature and humidity. Cure time can be greatly extended when setting dense tile, tile larger than 6" x 6" (15 x 15 cm), in high humidity, or when temperature is below 60° F (16° C).

Cleaning

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

Coverage

Coverage is approximately 40 – 60 ft²/gal (1 – 1.5 m²/L) applied with a 3/16" x 5/32" (5 x 4 mm) V-notch trowel

Recommended Trowel Sizes

- 3/16" x 5/32" (5 x 4 mm) v-notch for tile to 6" x 6" (15 x 15 cm)
- 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square-notch for tile over 6" x 6" (15 x 15 cm)
- 1/4" x 3/8" x 1/4" (6 x 9.5 x 6 mm) square-notch for tile 8" – 12" (20 – 30 cm)

PRECAUTIONS

This product contains petroleum distillates. Avoid eye contact or prolonged contact with skin. If ingested, do not induce vomiting; call a physician immediately. Use with adequate ventilation.

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 the www.custombuildingproducts.com website for information about product cost and availability.

7. Warranty

This product is eligible for Custom Building Products 15 Year Installation Systems Warranty.

Custom Building Products ("Custom") 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 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 express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

For details and complete warranty information, contact Custom Building Products or visit the Custom Building Products website: www.custombuildingproducts.com.

8. Maintenance

Properly installed product requires no special maintenance.

9. Technical Services

For technical assistance, contact Custom Building Products or visit the website: www.custombuildingproducts.com.

10. Filing Systems

Additional product information is available from the manufacturer upon request.

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