

OmniGrip® Premium Lightweight Tile Adhesive

1 Product Name

OmniGrip® Premium Lightweight Tile Adhesive

2 Manufacturer

Custom Building Products
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3 Product Description

A flexible, lightweight, high-polymer adhesive for tile and stone installation. Designed to resist intermittent water exposure and has 33% less shrinkage than traditional adhesives, as well as sag resistance. Ideal for small format for ceramic, mosaic, quarry, pavers, gauged slate, porcelain and gauged stone tile installations on walls, floors or countertops. Recommended for tile up to 12" (30.5 cm) on any side. Can be used with tile up to 15" (38.1 cm) on any side but dry time significantly increases. For tile with any side greater than 15" (38.1 cm) CUSTOM recommends using a polymer modified cement mortar specifically for large format tile.

Key Features

- High flexibility and bond strength
- 33% less shrinkage than traditional adhesives
- Sag and slip resistant - immediately holds wall tiles in place
- Ideal for small format tile
- Great for tub surrounds or shower walls

Suitable Tile Types

Vitreous, semi-vitreous or non-vitreous tile: ceramic and impervious porcelain, mosaic, quarry tile, slate and stone.

Suitable Substrates

- Concrete, mortar beds, masonry, Portland cement plaster
- [WonderBoard® Lite](#), cement backerboards
- Exterior Grade Plywood (EGP) interior residential and light commercial dry areas
- Gypsum wallboard (interior dry areas)
- Existing ceramic tile
- Fully-bonded sheet vinyl flooring
- Plastic laminates
- Cutback adhesive (see preparation instructions)

Composition of Product

Proprietary blend of acrylic copolymers, calcium carbonate and inorganic materials.

Benefits of Product in the Installation

- 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
- Flexible for increased crack resistance

Limitations to the Product

- If dry time is a concern due to tile size or other limitations noted, use a traditional polymer modified thinsset mortar
- Do not use over non-porous surfaces such as waterproofing membranes, coated tile backer board and vinyl flooring.
- 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, check with Custom Technical Services; use [EBM-Lite™ Epoxy Bonding Mortar 100% Solids](#) 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](#) or [CEG-Lite™ 100% Solids Commercial Epoxy Grout](#).
- Recommended for interior use only. Do not use for steam rooms, shower floors or underwater. For those installations, use CUSTOM® Polymer-Modified Mortar Systems.
- Not for use over radiant heat systems.
- Installation dry time varies depending on tile size and density, substrate porosity and ambient conditions.
- Do not use to install fixtures, ungauged natural stone, gauged stone thicker than 3/8" (9.5 mm), transparent glass tile, translucent stone, Saltillo pavers or lug back tile on floors.

Packaging

- 1 gal (3.78 L) pail
- 3.5 gal (13.25 L) pail
- 1 qt (0.95 L) pail Canada only
- Color: White

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



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Technical Chart

Property	Test Method	Requirement	Typical Results
Open Time			> 60 Minutes
Adjustment Time			> 60 Minutes
Freeze-Thaw Stability			Stable
Shear Bond Strength			
7 Day Dry	A136.1 Section 6.2.3.1	> 50 psi	Pass
28 Day Dry	A136.1 Section 6.2.3.3	> 50 psi	Pass
Type I After Water Immersion	A136.1 Section 6.2.3.2	> 50 psi	Exceeds
Heat Resistance	A136.1 Section 6.2.3.5	> 10 lbs. per tile	Pass
Impact Resistance	A136.1 Section 6.2.3.6	Tile Remain Bonded	Pass
Staining	A136.1 Section 6.3	< 70% Penetration	Pass
Resistance to Mold Growth	A136.1 Section 6.4	No Growth	Pass

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 including those under resilient 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. Sheet vinyl must be well-bonded and stripped of old finish. 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 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 Surfaces

Plywood floors must be structurally sound and must meet all ANSI A108.01 Part 3.4 requirements. See TCNA F142. For questions about proper subfloor installation, call Custom technical services.

Bonding to Backerboards

As an alternative to an additional layer of plywood, WonderBoard® Backerboard may be installed over non-deflecting plywood subfloors. Refer to TCNA F144 and W244.

Bonding to Existing Surfacing Material

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.

Bonding to Cutback Adhesive

Adhesive layers must be removed, as they reduce mortar bond strength to cement surfaces. Use extreme caution; 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. To determine bond strength, do a test bond area before starting. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings", for further information.

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's® Technical Services for the proper treatment of control or saw cut joints. Refer to TCNA EJ171 for perimeter and field movement joints.

Mixing Procedures

Product is Ready-to-Use. Reseal remaining product in original container for future use.



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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 adhesive with appropriate size trowel. Apply additional adhesive 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 adhesive. Do not apply more adhesive than can be covered with tile in 30 minutes. If adhesive starts to skin over (not sticky), retrowel before setting tile. Do not apply more adhesive than is necessary to achieve a sufficient bond.

Curing of Product

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

Cleaning of equipment

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

Storage

Store in a cool, dry area.

Health 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.

Conformance to Building Codes

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

6 Availability & Cost

Location	Item Code	Size	Color	Package
USA	OGA1-2	1 gal (3.78 L)	White	Pail
USA	OGA3	3 1/2 gal (13.25 L)	White	Pail
Canada	COGAQT	1 qt (.946 L)	White	Pail
Canada	COGA1-2	1 gal (3.78 L)	White	Pail
Canada	COGA3	3 1/2 gal (13.25 L)	White	Pail

7 Product Warranty

Obtain the applicable **LIMITED PRODUCT WARRANTY** at www.custombuildingproducts.com/product-warranty or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA. Manufactured under the authority of Custom Building Products, Inc. © 2017 Quikrete International, Inc.

When OmniGrip® Maximum Strength Adhesive is used as a part of a qualifying full installation system of CUSTOM products, the installation can qualify for up to a 15 year system warranty. CUSTOM will repair and/or replace, at its discretion, the affected area of the system. For more information, find details and limitations to this warranty at custombuildingproducts.com.

8 Product Maintenance

Properly installed product requires no special maintenance.

9 Technical Services Information

For technical assistance, contact Custom technical services at 800-282-8786 or visit custombuildingproducts.com.

10 Filing System

Additional product information is available from the manufacturer upon request.

Expected Wear

Properly installed tile will last for more than 60 years.

Related Products

Polyblend® Sanded Grout

Fusion Pro® Single Component® Grout

CEG-Lite™ 100% Solids Commercial Epoxy Grout

Prism® Ultimate Performance Grout

CEG-IG 100% Solids Industrial Grade Epoxy Grout



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Coverage

SQUARE FOOT COVERAGE PER GALLON (SQUARE METER PER 3.78 L)

Trowel Size	Min Coverage	Max Coverage
3/16" x 5/32" (5 x 4 mm) V-notch for tile up to 6" (15 cm) on any one side	40 sq. ft. (3.7 M ²)	60 sq. ft. (5.6 M ²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) Sq notch for tiles up to 12" (30 cm) on any one side	15 sq. ft. (1.4 M ²)	25 sq. ft. (2.3 M ²)
1/4" x 3/8" x 1/4" Sq notch for tiles up to 15" (38.1 cm) on any one side	10 sq. ft. (.93 M ²)	14 sq. ft. (1.4 M ²)

Recommended minimum coverage (80% for dry areas and 95% for wet areas and exteriors. Back buttering may be necessary. For any tile with the longest side 15" +, use a medium bed mortar from CUSTOM designed for large format and heavy tile.

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.



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