

100% Solids Epoxy Grout

1 Product Name

100% Solids Epoxy Grout

2 Manufacturer

Custom Building Products
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3 Product Description

NOTE: This product has been discontinued.

A two-component system consisting of a resin and hardener that is combined with any [Polyblend® Sanded Grout](#) to fill joint widths from 1/8" to 3/8" (3-10 mm). It offers maximum resistance to staining. Delivers a grout that is uniform in color and colorfast. Easy to apply and cleans up easily with water.

Key Features

- Mix with 25 lb Polyblend Sanded Grout
- Highly stain and chemical resistant
- Non-slumping, easy clean-up

Uses

- For grouting vitreous, semi-vitreous or impervious tile including ceramic, mosaic, quarry, pavers, cement, porcelain, glass, brick, mini brick, cement-based precast terrazzo and natural stone.
- Use on floors, countertops, walls, ceilings, showers, fountains, pools.
- Use to fill joint widths from 1/8" to 3/8" (3 – 10 mm).
- Use in high traffic areas, such as airports and shopping malls. Applications requiring high acid and chemical resistance such as dairies, breweries, bottling plants, bakeries, meat packing plants, pharmaceutical plants and animal hospitals.
- For interior use or exterior installations with surface temperatures between 60° F (16° C) and 90° F (32° C).

Suitable Substrates

- Countertops, backsplashes, tub and shower areas, sunken tile tubs and swimming pools that are continually wet
- Plumb and true masonry, concrete, cured Portland cement mortar beds
- Bonds directly to brick, ceramic tile, cementitious back units, steel, glass and fiberglass

Composition of Product

2-part formula, with Part A liquid epoxy resin and Part B liquid epoxy hardener combined with Portland cement and aggregates. Different liquids are required based on desired color.



Benefits of Product in the Installation

- Combine with Polyblend Sanded Grout
- High resistance to staining or chemical attacks
- Fast clean-up provide easy grout installation
- For joints 1/8" to 3/8" (3mm to 9 mm) wide.



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Limitations to the Product

- Should not be used in an environment with temperature requirements above 250°F (121°C) for any extended period of time.
- When used to install tile in an area that will be continually wet (e.g. swimming pools, gang showers, etc.), it is recommended that the complete installation be cured 14 days prior to full submersion with chemically treated water.
- Epoxy, epoxy residue, or wash water will discolor painted or anodized surfaces upon contact. Protect these surfaces from exposure.
- Vertical grout joint width should not exceed 1/2" (13 mm).
- Should be tested for possible staining or slight color changes when used with porous, absorptive, textured tile and stone units such as rough textured ceramic tile, natural stone or marble.
- All epoxies are temperature sensitive. Epoxies are easiest to apply when temperatures are between 70°F and 85°F (21°C and 29°C). Lower temperatures will cause the epoxy to become stiff and more difficult to work and will extend initial set. Higher temperatures will cause the epoxy to become more fluid and will accelerate the set.
- With all epoxies, a crystallization effect can occur when the liquid gets below 45°F (7°C) and/or has experienced multiple cycles of high and low temperature changes. If material is hard, place the sealed container (with the lid on), in warm tap water at approximately 120°F (49°C) for 10 to 20 minutes, and when re-liquified, let the material return to room temperature before mixing.
- Not recommended in some manufacturing facilities where heavy solvents are used. Consult Technical Services on questionable installations.
- Colors may be slightly different than shown on color samples. When color considerations are critical, a mock-up should be constructed prior to final selection and application.
- The use of non-rinse, enzyme-based cleaners is not recommended because they will break down the organic materials in epoxy grout, causing permanent damage.
- Note: some glass tile manufacturers do not recommend using epoxy grout during installation. If using glass tile, confirm with the tile manufacturer before proceeding.
- Not for use in movement joints or changes of plane in the tile installation. In these areas use an appropriate caulk or sealant such as [Commercial 100% Silicone Caulk](#) or [Polyblend® Ceramic Tile Caulk](#).

Packaging

Deep Tone Colors: pail unit

- 80 fl. oz. (2.4 L) A
- 40 fl. oz. (1.2 L) B

Mid Tone Colors: pail unit

- 80 fl. oz. (2.4 L) A
- 40 fl. oz. (1.2 L) B

White Colors: pail unit

- 80 fl. oz. (2.4 L) A
- 40 fl. oz. (1.2 L) B

Each unit will need 25 lbs of Polyblend Sanded Grout for color

4 Technical Data

Applicable Standards

Detailed installation procedures and use of epoxy mortars may be found in the TCNA Handbook under F-113, F-114, F-115, F-116, F-125, F-128, F-143, F-131, F-132, F-134, F-135, F-200, F-205, TR-711 and TR-712 and in addition, in ANSI A108.6. Exceeds ANSI A118.3 specifications. Conforms to requirements for chemical-resistant, water cleanable tile setting and grouting epoxy found in ANSI A108.6 and ANSI A118.3.

Technical Chart

Property	Test Method	Requirement	Typical Results
Water Cleanability	A118.3 Section 5.1	> 80 Minutes	90 Minutes
Initial Set	A118.3 Section 5.2	> 2 Hours	4 Hours
Shrinkage	A118.3 Section 5.3	< 0.25%	
Sag in Vertical Joints	A118.3 Section 5.4	No change	Pass
Shear Bond Strength to Quarry Tile	A118.3 Section 5.5	> 1000 psi	
Compressive Strength	A118.3 Section 5.6	> 3500 psi	7000 psi (492.1 kg/cm sq.)
Tensile Strength	A118.3 Section 5.7	> 1000 psi	
Thermal Shock Resistance	A118.3 Section 5.8	> 500 psi	>500 psi

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.

All surfaces on which tiles are to be set must be dry, structurally sound, and not subject to temperatures below 65° F (18° C) or above 95° F (35° C). Surfaces must be dry and free of all grease, oil, dirt, dust, curing compounds, sealers, coating, efflorescence, old adhesive residues, gypsum-based underlayments and any other foreign matter.



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Mixing Procedures

Stir contents of Part "A" thoroughly, then combine entire contents of part "A" and "B" in a clean mixing container. Stir with a margin trowel until thoroughly mixed. Gradually add a 25 lb (11.34 kg) bag of Polyblend® Sanded Grout into premixed liquids. Using a low speed mechanical mixer (300 RPM or less), mix until smooth. Consistency can be adjusted by reducing the amount of powder added up to 25% (17 lbs). Typically narrow joints require less Polyblend®. For vertical installations, add Non-Slump Epoxy Additive according to directions.

Application of Product

Remove all mixed epoxy from container and place in small piles where work is to proceed. This will extend working time. When grouting walls, place epoxy on mortar board placed on the floor. Using an epoxy grout float, pack joint full with epoxy being careful not to leave voids during application. Remove excess epoxy by holding grout float at a 90° angle and pulling the float diagonally across the grout joints. Removing as much epoxy as possible will make final cleaning easier. Avoid gouging joints. Allow joint to set for approximately 15-30 minutes or until they begin to firm. Time will vary depending upon substrate and ambient temperature. Do not allow epoxy to set on face of tile. Apply liberal amounts of clean, cool water to the grouted area. Adding a few drops (maximum) of dishwashing liquid to the water will aid in cleanup. Using a white nylon pad, work in a circular motion to loosen epoxy film and finish joints smoothly. If necessary add more water to aid cleaning. Clean film from tile with a damp cotton towel and clean water. Change rinse water frequently to aid cleanup and minimize epoxy residue left behind. If a film is noticed after final cleanup, allow joints to cure for 2 hours (depending upon temperature) and rinse grouted tile with clean water and hydro sponge.

Curing of Product

Generally, light foot traffic can be allowed in 18 hours at 75°F (24°C), normal foot traffic in 24 hours and heavy foot traffic in 72 hours. Epoxy should be kept dry and protected from exposure to food or other chemicals, that could stain or attack the grout, for 7 days after installation.

Exterior applications must be protected from rain, snow and other wet conditions for at least 7 days with temperature above 50° F (10° C). If inclement weather is expected, protect the work area with tenting at least 1 foot (30 cm) above the finished surface to allow air flow. Enclose and protect exterior installations and maintain >50° F (10° C) temperatures for at least 72 hours for proper cure.

Sealing of Grout

Sealing is not necessary

Cleaning of equipment

Clean tools and hands with water before material dries.

Storage

Keep from freezing.

Health Precautions

May irritate eyes. May irritate skin. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. KEEP OUT OF REACH OF CHILDREN. Wear safety glasses and chemical-resistant gloves. First Aid Treatment: If swallowed, call a poison control center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water 15 minutes. If on skin, rinse well with water.

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	Grout Color	Package
USA	SEGW	Grouting Unit: 80 fl. oz. (2.4 L) A 40 fl. oz. (1.2 L) B	White Colors	Pail Bottle Bottle
USA	SEGC	Grouting Unit: 80 fl. oz. (2.4 L) A 40 fl. oz. (1.2 L) B	Mid Tone Colors	Pail Bottle Bottle
USA	SEGD	Grouting Unit: 80 fl. oz. (2.4 L) A 40 fl. oz. (1.2 L) B	Deep Tone Colors	Pail Bottle Bottle
Canada	CSEGW	Small Unit: 24 fl. oz. (710 ml) A 12 fl. oz. (355 ml) B	White Colors	Pail Bottle Bottle
Canada	CSEGC	Small Unit: 24 fl. oz. (710 ml) A 12 fl. oz. (355 ml) B	Mid Tone Colors	Pail Bottle Bottle
Canada	CSEGD	Small Unit: 24 fl. oz. (710 ml) A 12 fl. oz. (355 ml) B	Deep Tone Colors	Pail Bottle Bottle

MIX EPOXY FOR LIGHT COLOR TONES (SEGW) WITH THE FOLLOWING 25 LB.(11.34 KG) POLYBLEND SANDED GROUT COLORS:

#10 Antique White	#11 Snow White
#14 White Dove	#127 Antique White
#172 Urban Putty	#333 Alabaster
#381 Bright White	#382 Bone

MIX EPOXY FOR MID COLOR TONES (SEGC) WITH THE FOLLOWING 25 LB.(11.34 KG) POLYBLEND SANDED GROUT COLORS:



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#17 Butter Cream	#19 Pewter
#22 Sahara Tan	#45 Summer Wheat
#50 Nutmeg	#90 Ocean Blue
#101 Quartz	#105 Earth
#115 Platinum	#122 Linen
#135 Mushroom	#145 Light Smoke
#156 Fawn	#165 Delorean Gray
#168 Slate Gray	#180 Sandstone
#183 Chateau	#185 New Taupe
#186 Kahki	#190 Bay Leaf
#301 Arctic Ice	#311 Moss
#335 Winter Gray	#365 Canvas
#370 Dove Gray	#380 Haystack
#386 Oyster Gray	#390 Rose Beige

MIX EPOXY FOR DARK COLOR TONES (SEGD) WITH THE FOLLOWING 25 LB. (11.34 KG) POLYBLEND SANDED GROUT COLORS:

#9 Natural Gray	#35 Chaparral
#52 Tobacco Brown	#59 Saddle Brown
#60 Charcoal	#92 Admiral Blue
#95 Sable Brown	#96 Quarry Red Clay
#99 Burnt Clay	#305 Onyx Green
#312 Bonsai	#384 Camel

See our color card for truest color representation when selecting or specifying a grout color. Final installed shade may vary with the tile type, color and porosity as well as jobsite conditions and finishing techniques. For best results, perform a test on a small, inconspicuous area or create a sample board prior to installation.

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.

8 Product Maintenance

For routine cleaning, use TileLab® Grout & Tile Cleaner or TileLab® Heavy-Duty Cleaner & Stripper.

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.

Related Products

Commercial 100% Silicone Sealant

Non-Slump Epoxy Additive



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Coverage

Tile Size	Joint Width			
	1/8" (3 mm)	3/16" (4.8 mm)	1/4" (6 mm)	3/8" (9.5 mm)
1" x 1" x 1/4" (25 x 25 x 4.5 mm)	55 (5.1)	43 (4.0)	31 (2.9)	23 (2.1)
2" x 2" x 1/4" (50 x 50 x 6 mm)	110 (10.2)	74 (6.9)	60 (5.6)	45 (4.2)
3" x 3" x 1/4" (75 x 75 x 6 mm)	155 (14.4)	106 (9.8)	82 (7.6)	58 (5.4)
4 1/4" x 4 1/4" x 1/4" (106 x 106 x 6 mm)	215 (20.0)	147 (13.7)	110 (10.2)	80 (7.4)
6" x 6" x 1/4" (150 x 150 x 6 mm)	295 (27.4)	204 (19.0)	155 (14.4)	106 (9.8)
8" x 8" x 3/8" (200 x 200 x 9.5 mm)	267 (24.8)	201 (18.7)	136 (12.6)	92 (8.5)
12" x 12" x 3/8" (300 x 300 x 9.5 mm)	396 (36.8)	299 (27.8)	202 (18.8)	136 (12.6)
16" x 16" x 3/8" (400 x 400 x 9.5 mm)	527 (49.0)	397 (36.9)	267 (24.8)	176 (16.3)
20" x 20" x 3/8" (500 x 500 x 9.5 mm)	664 (61.7)	499 (46.4)	334 (31.0)	224 (20.8)
24" x 24" x 3/8" (600 x 600 x 9.5 mm)	802 (74.5)	599 (55.6)	396 (36.8)	267 (24.8)

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



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