CEG-Lite™ 100% Solids Commercial Epoxy Grout



1. Product Name

CEG-Lite™ 100% Solids Commercial Epoxy Grout

2. Product Description

CEG-Lite™ 100% Solids Commercial Epoxy Grout provides chemical and stain resistance with a fast cure time for a quick return to service. Its lightweight formula makes it easier to spread than typical epoxy grouts and is water-cleanable. CEG-Lite exceeds ANSI A118.3 performance requirements, is suitable for use on vertical joints without an additive, and can also be used as a mortar. Its two-component formula combines a Part A pigmented hardener with a Part B consisting of resins and lightweight aggregates. CEG-Lite is compatible with both CEG-Lite Part A and CEG Part A epoxy grout color pigment and hardener products. Formula is patent-pending.

Key Features

- Color consistent, stain and chemical resistant
- Easy to spread and clean-up
- No sagging in vertical joints
- Contains recycled LEED contributing materials

Uses

- CEG-Lite can be used as both a grout and as a setting mortar
- Use with virtually any tile - vitreous, semi-vitreous or impervious tile including ceramic, mosaic, quarry, pavers, cement, porcelain, glass, brick, mini-brick, precast terrazzo and natural stone, including green marble
- Use to fill joint widths from 1/16" to 1/2" (1.6 - 13 mm)
- May be used for both floor and wall installations
- Interior and exterior applications. When used as a grout on exterior applications, color variations may occur over time.
- Countertops, backsplashes, tub and shower areas, sunken tile tubs and swimming pools that are continually wet
- For use in areas requiring chemical resistance. For installations with high chemical resistance requirements, see chemical resistance chart for details.
- For commercial kitchens that may use harsh chemical cleaners and for installations in industrial settings, CUSTOM recommends CEG-IG 100% Solids Industrial Grade Epoxy Grout.

Suitable Substrates (when used as a bonding mortar)

- Plumb and true masonry, concrete, cured Portland cement mortar beds
- Bonds directly to brick, ceramic tile, cementitious backer units, steel, glass and fiberglass

Composition of Product

2-part formula, with Part A pigmented liquid epoxy hardener and Part B liquid epoxy resin combined with aggregates.

Benefits of Product in the Installation

- 2-Part 100% Solids Epoxy
- No shrinkage
- Color consistent and stain resistant
- Does not require sealing
- Easy to spread and water clean-up
- No additive needed for critical grouting applications
- Contains recycled materials that may contribute to LEED® credits
- Exceeds ANSI A118.3 (100% Epoxy) performance requirements

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.
- 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 40°F (4°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 110°F (38°C) for 10 to 20 minutes, and when re-liquified, let the material return to room temperature before mixing.
- 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.
- Not recommended in some manufacturing facilities where strong solvents are used. Consult Technical Services on questionable installations. CUSTOM recommends the use of CEG-IG™ Commercial Epoxy Grout for these installations.
- 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.
- Some ceramic, glass, metal, marble or stone tiles can be scratched or damaged by the silica aggregate filler. Perform a test on a small area prior to use. Polyblend® NonSanded Grout may be appropriate for joints smaller than 1/8" or for tile not suited for sanded grout.
- Not for use in movement joints or changes of plane in the tile installation. In these areas us an appropriate caulk or sealant such as Commercial 100% Silicone Caulk or Polyblend® Ceramic Tile Caulk.

Packaging

Grout mixture requires two separately-sold parts:

- Part A 1.3 lb (.58 kg) container of pigmented liquid epoxy hardener, available in 40 standard colors
- Part B 19 lb (8.6 kg) or 9.5 lb (4.3 kg) liquid epoxy resin combined with aggregates

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3. Technical Data

Applicable Standards

Detailed installation procedures and use of epoxy mortars may be found in the TCNA Handbook under F-114, F-115, F-116E, F-125, F-128, F-143, F-131, F-132, F-134, F-135, F-200, F-205, TR-712 and TR-713 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	>80 Minutes
Initial Set	A118.3 Section 5.2	> 2 Hours	>2 Hours
Shrinkage	A118.3 Section 5.3	< 0.25%	0.08%
Sag in Vertical Joints	A118.3 Section 5.4	No Change	No Change
Shear Bond Strength to Quarry Tile	A118.3 Section 5.5	> 1000 psi	Pass
Compressive Strength	A118.3 Section 5.6	> 3500 psi	5,800 psi
Tensile Strength	A118.3 Section 5.7	> 1000 psi	1,700 psi
Thermal Shock Resistance	A118.3 Section 5.8	> 500 psi	900 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 2 points towards MR Credit 4, Recycled Content
- Up to 1 point towards IEQ Credit 4.1, Low-Emitting Materials - Adhesives & Sealants

4. 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.

NOTE: On porous or rough tiles, pre-grout sealing with a grout release such as Aqua Mix Grout Release or TileLab SurfaceGuard may be necessary to prevent staining. Try a test patch to be sure. Epoxy and epoxy wash residue should not be allowed to dry on painted, anodized and thin metal-plated surfaces. Clean uncured materials from these surfaces immediately with soap and water.

Bonding To Concrete Surfaces

In some applications, CEG-Lite™ may be used as a mortar when bonding to cement surfaces. Cleaning may be accomplished via mechanical abrasion, scraping or chipping. Smooth, steel- troweled concrete floors must be roughened to ensure a superior bond. Dry porous concrete should not be pre-dampened with water before applying CEG-Lite . Instead, skimcoat a thin layer of CEG-Lite first, then apply sufficient CEG-Lite with the appropriate notch trowel.

Bonding to Plywood and OSB Surfaces

In some applications, CEG-Lite™ may be used as a mortar when bonding to plywood surfaces. All wood flooring, when placed over conventional floor joist or other systems, should be of a design and thickness so as to meet ANSI A108.01. Further, the flooring to receive the CEG-Lite should be Exterior Grade Plywood only, secured with screw-type nails and glued where possible. A gap of 1/8" (3 mm) should be left between sheets of plywood and between the plywood edges and all materials which they abut to allow for expansion. These gaps should remain empty when the installation is complete. Do not force epoxy between edges of plywood sheets. Follow TCNA EJ-171 for expansion joint details. In addition, all wooden surfaces must be for interior use only and protected from exposure to water.

Mixing Procedures

Open Part B and stir thoroughly to eliminate the effects of settling due to shipping. Add the entire contents of the pigment Part A to Part B and stir to produce a homogeneous consistency, eliminating any color streaks from appearing in the mixed unit. Do not mix partial units. Make sure to scrape bottom and sides of container during mixing.

NOTE: **ONE PART A UNIT OF COLOR IS REQUIRED FOR ONE PART B RESIN COMPONENT FOR 1-GALLON UNIT; TWO PART A UNITS OF COLOR ARE REQUIRED FOR ONE PART B RESIN COMPONENT FOR THE 2-GALLON UNIT. GROUT WILL NOT HARDEN OR COME TO THE DESIRED COLOR IF INCORRECTLY MIXED**. For best results, use a power mixer at 300 RPM or less to avoid entrapping air bubbles which cause pinholes in the grout. Do not overmix as this will cause the epoxy to flash set.

Application of Product

Application for Use as a Grout

Remove all grout from container and spread out in piles over the surface to be grouted as soon as mixing is completed. This will extend working time. When grouting walls, place epoxy on a mortarboard placed on the floor. Grout vertical surfaces as soon as possible after mixing. Apply grout using a hard epoxy rubber float, filling all joints full and even with surface of tile.

It is important to achieve 100% fill coverage with no voids in the joints to prevent pinholes and slumping of the epoxy grout. Remove excess epoxy by holding the grout float at a 90° angle and pulling the float diagonally across the grout joints using it like a squeegee. Removing as much epoxy as possible will make final cleaning easier. Avoid gouging joints. Do not allow epoxy to set on face of tile. Apply liberal amounts of clean, warm water over the grouted area. Adding a few drops (maximum) of dishwashing liquid to the water will aid in cleanup. Using a grout sponge and as little pressure as possible, work in a circular motion across tiles to loosen epoxy film and to finish the joints smoothly. Change rinse water (and sponge if buildup occurs) frequently to aid in cleanup and minimize epoxy residue left behind. As a final step, clean film from tile by dragging a damp, clean microfiber towel flatly across the tiles. Pot life (workability) of CEG-Lite will vary depending on ambient conditions. Pot life is approximately 60 minutes at 75° F (24° C).

Application for Use as a Mortar

Spread mixed epoxy with flat side of trowel onto substrate. Then, reapply additional mortar to a depth sufficient to be notched with a

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suitable trowel. Troweling should leave enough mortar to give minimum of 80% contact with back of the tile and a leave a mortar bed of about 3/32" (2.4 mm) for ceramic mosaic tile to 1/4" (6.3 mm) for quarry tile. Temperature affects set time; therefore, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. Approximate tack time is 30 minutes at 75°F (24°C). Pot life is approximately 60 minutes at 75°F (24°C). Should epoxy mortar get on surface of tile, it will be necessary to remove it with a damp sponge before it cures. Epoxy residue should not be allowed to cure on unintended surfaces (e.g. painted, wall papered, carpeted, wood, concrete, masonry and stucco surfaces).

Curing of Product

Available for light traffic after 7 hours with ambient temperature at 70° with 50% relative humidity; narrower grout joints and job site conditions may increase cure time. Because propane gas heaters will yellow epoxy, refrain from using such heaters or properly vent all exhaust during the curing process. Protect from harsh industrial cleaners for seven days and from aggressive chemicals for 14 days. Initial maintenance for the first seven days should be using clean water only. All grouting and cleaning should be completed within 80 minutes. If a grout haze is present on the tile, depending on the severity, use Aqua Mix NanoScrub alone or in conjunction with Aqua Mix Sealer & Coating Remover or Aqua Mix Non-Cement Grout Haze Remover. Mechanical scrubbing with the above cleaners can be used when necessary.

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.

Cleaning of Equipment

Clean tools and hands with water before material dries.

Storage

Keep from freezing. Maximum allowable storage temperature: 110 °F (43 °C). If the allowable storage temperature is exceeded or the product is allowed to freeze, the product must be discarded.

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 breath 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.

5. Size & Availability

Item Code	Size	Grout Color	Package
Part A			
LWCEG09A-EA	1.3 lbs	#9 Natural Gray	Tub
LWCEG10A-EA	1.3 lbs	#10 Antique White	Tub
LWCEG11A-EA	1.3 lbs	#11 Snow White	Tub
LWCEG19A-EA	1.3 lbs	#19 Pewter	Tub
LWCEG52A-EA	1.3 lbs	#52 Tobacco Brown	Tub
LWCEG59A-EA	1.3 lbs	#59 Saddle Brown	Tub
LWCEG60A-EA	1.3 lbs	#60 Charcoal	Tub
LWCEG95A-EA	1.3 lbs	#95 Sable Brown	Tub
LWCEG105A-EA	1.3 lbs	#105 Earth	Tub
LWCEG115A-EA	1.3 lbs	#115 Platinum	Tub
LWCEG122A-EA	1.3 lbs	#122 Linen	Tub
LWCEG135A-EA	1.3 lbs	#135 Mushroom	Tub
LWCEG145A-EA	1.3 lbs	#145 Light Smoke	Tub
LWCEG165A-EA	1.3 lbs	#165 Delorean Gray	Tub
LWCEG172A-EA	1.3 lbs	#172 Urban Putty	Tub
LWCEG183A-EA	1.3 lbs	#183 Chateau	Tub
LWCEG185A-EA	1.3 lbs	#185 New Taupe	Tub
LWCEG186A-EA	1.3 lbs	#186 Khaki	Tub
LWCEG333A-EA	1.3 lbs	#333 Alabaster	Tub
LWCEG335A-EA	1.3 lbs	#335 Winter Gray	Tub
LWCEG370A-EA	1.3 lbs	#370 Dove Gray	Tub
LWCEG380A-EA	1.3 lbs	#380 Haystack	Tub
LWCEG381A-EA	1.3 lbs	#381 Bright White	Tub
LWCEG382A-EA	1.3 lbs	#382 Bone	Tub
LWCEG386A-EA	1.3 lbs	#386 Oyster Gray	Tub
LWCEG401A-EA	1.3 lbs	#540 Truffle	Tub
LWCEG541A-EA	1.3 lbs	#541 Walnut	Tub
LWCEG542A-EA	1.3 lbs	#542 Graystone	Tub
LWCEG543A-EA	1.3 lbs	#543 Driftwood	Tub

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LWCEG544A-EA	1.3 lbs	#544 Rolling Fog	Tub
LWCEG545A-EA	1.3 lbs	#545 Bleached Wood	Tub
LWCEG546A-EA	1.3 lbs	#546 Cape Gray	Tub
LWCEG640A-EA	1.3 lbs	#640 Arctic White	Tub
LWCEG641A-EA	1.3 lbs	#641 Cool White	Tub
LWCEG642A-EA	1.3 lbs	#642 Ash	Tub
LWCEG643A-EA	1.3 lbs	#643 Warm Gray	Tub
LWCEG644A-EA	1.3 lbs	#644 Shadow	Tub
LWCEG645A-EA	1.3 lbs	#645 Steel Blue	Tub
LWCEG646A-EA	1.3 lbs	#646 Coffee Bean	Tub
LWCEG647A-EA	1.3 lbs	#647 Brown Velvet	Tub
Part B			
LWCEGB1-EA	9.5 lbs	n/a	Pail
LWCEGB2	19 lbs	n/a	Pail

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.

6. Product Maintenance

Clean with a neutral cleaner such as Aqua Mix Concentrated Stone & Tile Cleaner or TileLab Grout & Tile Cleaner.

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

Commercial 100% Silicone Sealant

Coverage Chart

Per unit CEG-Lite combined 1 Part A + 1 Part B (9.5 lb. / 4.3 kg) in ft² (m²). Coverage for larger size CEG-Lite (19 lb. / 8.6 kg) is double the values below.

Tile Size	Joint Width					
Width x Length x Thickness	1/16" (1.6 mm)	1/8" (3 mm)	3/16" (4.8 mm)	1/4" (6.3 mm)	3/8" (9.5 mm)	1/2" (13 mm)

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1" x 1" x 1/4" (2.5 x 2.5 x .64 cm)	52 ft² (4.8 m²)	29 ft² (2.7 m²)	21 ft² (2 m²)	18 ft² (1.7 m²)	14 ft² (1.3 m²)	13 ft² (1.2 m²)
2" x 2" x 1/4" (5 x 5 x .64 cm)	97 ft² (9 m²)	52 ft² (4.8 m²)	36 ft² (3.4 m²)	29 ft² (2.7 m²)	21 ft² (2 m²)	18 ft² (1.7 m²)
3" x 3" x 1/4" (7.6 x 7.6 x .64 cm)	143 ft² (13.3 m²)	74 ft² (6.9 m²)	52 ft² (4.8 m²)	40 ft² (3.7 m²)	29 ft² (2.7 m²)	23 ft² (2.2 m²)
4.25" x 4.25" x 1/4" (10.8 x 10.8 x .64 cm)	200 ft² (18.6 m²)	103 ft² (9.6 m²)	71 ft² (6.6 m²)	54 ft² (5.1 m²)	38 ft² (3.6 m²)	30 ft² (2.8 m²)
4" x 8" x 1/2" (10.2 x 20.3 x 1.3 cm)	125 ft² (11.6 m²)	64 ft² (5.9 m²)	44 ft² (4.1 m²)	33 ft² (3.1 m²)	23 ft² (2.1 m²)	18 ft² (1.7 m²)
6" x 6" x 1/4" (15.2 x 15.2 x .64 cm)	280 ft² (26 m²)	143 ft² (13.3 m²)	97 ft² (9 m²)	74 ft² (6.9 m²)	52 ft² (4.8 m²)	40 ft² (3.7 m²)
6" x 6" x 1/2" (15.2 x 15.2 x 1.3 cm)	140 ft² (13 m²)	71 ft² (6.6 m²)	49 ft² (4.6 m²)	37 ft² (3.4 m²)	26 ft² (2.4 m²)	20 ft² (1.9 m²)
8" x 8" x 3/8" (20.3 x 20.3 x 1 cm)	248 ft² (23 m²)	126 ft² (11.7 m²)	85 ft² (7.9 m²)	65 ft² (6 m²)	45 ft² (4.2 m²)	34 ft² (3.2 m²)
12" x 12" x 3/8" (30.5 x 30.5 x 1 cm)	369 ft² (34.3 m²)	187 ft² (17.3 m²)	126 ft² (11.7 m²)	95 ft² (8.8 m²)	65 ft² (6 m²)	50 ft² (4.6 m²)
16" x 16" x 3/8" (40.6 x 40.6 x 1 cm)	491 ft² (45.6 m²)	248 ft² (23 m²)	166 ft² (15.4 m²)	126 ft² (11.7 m²)	85 ft² (7.9 m²)	65 ft² (6 m²)
18" x 18" x 3/8" (45.7 x 45.7 x 1 cm)	552 ft² (51.3 m²)	278 ft² (25.8 m²)	187 ft² (17.3 m²)	141 ft² (13.1 m²)	95 ft² (8.8 m²)	72 ft² (6.7 m²)
20" x 20" x 3/8" (50.8 x 50.8 x 1 cm)	613 ft² (56.9 m²)	309 ft² (28.7 m²)	207 ft² (19.2 m²)	156 ft² (14.5 m²)	105 ft² (9.8 m²)	80 ft² (7.4 m²)
24" x 24" x 3/8" (61 x 61 x 1 cm)	735 ft² (68.3 m²)	369 ft² (34.3 m²)	248 ft² (23 m²)	187 ft² (17.4 m²)	126 ft² (11.7 m²)	95 ft² (8.8 m²)
6" x 24" x 3/8" (15.2 x 61 x 1 cm)	296 ft² (27.5 m²)	150 ft² (13.9 m²)	101 ft² (9.4 m²)	77 ft² (7.1 m²)	53 ft² (4.9 m²)	40 ft² (3.8 m²)
12" x 24" x 3/8" (30.5 x 61 x 1 cm)	491 ft² (45.6 m²)	248 ft² (23 m²)	166 ft² (15.5 m²)	126 ft² (11.7 m²)	85 ft² (7.9 m²)	65 ft² (6 m²)
6" x 36" x 3/8" (15.2 x 91.4 x 1 cm)	317 ft² (29.4 m²)	161 ft² (15 m²)	108 ft² (10 m²)	82 ft² (7.6 m²)	56 ft² (5.2 m²)	43 ft² (4 m²)
9 x 36" x 3/8" (22.9 x 91.4 x 1 cm)	443 ft² (41.2 m²)	223 ft² (20.7 m²)	150 ft² (13.9 m²)	114 ft² (10.6 m²)	77 ft² (7.2 m²)	59 ft² (5.5 m²)
12" x 48" x 3/8" (30.5 x 122 x 1 cm)	589 ft² (54.7 m²)	296 ft² (27.5 m²)	199 ft² (18.5 m²)	150 ft² (13.9 m²)	101 ft² (9.4 m²)	77 ft² (7.2 m²)

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.