

CEG-2000™ 100% SOLIDS COMMERCIAL EPOXY GROUT

1. Product Name

CEG-2000™ 100% Solids Commercial Epoxy Grout

2. Manufacturer

Custom Building Products

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3. Product Description

CEG-2000 100% Solids Epoxy is a stain resistant, impermeable and nonflammable blend of epoxies and aggregates that can be used as a grout and as a setting mortar. Colorfast and uniform in color, CEG-2000 100% Solids Grout accommodates 1/16" – 1/2" (1.6–13 mm) grout joint widths. CEG-2000 is stain, acid, solvent and shock resistance makes it ideal for industrial facilities, dairies, breweries and other applications where acids, cleaners and chemicals would normally cause erosion and damage to the setting beds and cement grout joints. High strength and water resistance make it suitable for hospitals, restaurants, food preparation areas, countertops, backsplashes, showers, tubs, swimming pools, floors, countertops, walls and ceilings.

CEG-2000 can be used with the following tile types:

- Ceramic mosaic, and quarry tile
- Porcelain and glass tile
- Thin brick
- Precast terrazzo & cement body tile
- Natural stone tile

CEG-2000 Epoxy can be used with the following substrates:

- Concrete, mortar beds, masonry, Portland cement plaster
- WonderBoard®, cement backerboards
- Exterior grade plywood (interior residential and light commercial dry areas)
- Gypsum wallboard (interior dry areas)
- Waterproofing membranes, such as RedGard® and Custom 9240®, liquid applied and Crack Buster® Pro sheet membrane
- Existing ceramic tile
- Fully bonded sheet vinyl flooring
- Plastic laminates

COMPOSITION & MATERIALS

CEG-2000 is a 2-part formula, with Part A pigmented liquid epoxy hardener and Part B liquid epoxy resin combined with aggregates.

SIZES

- Units consist of a pre-measured two part system:
 - Part A — 2.25 lb (1.02 kg) container of pigmented liquid epoxy hardener
 - Part B — 2 gal (7.6 L) liquid epoxy resin combined with aggregates
- Several color choices are available: Medium Gray, White, Brown, Black, Dark Gray, Beige, Light Beige, Brick Red

BENEFITS

- Uniform in color, colorfast
- Can be used as a grout and as a setting mortar
- Excellent acid, chemical, solvent, stain and impact resistance
- Impermeable and nonflammable
- Exceeds ANSI A118.3 standards

LIMITATIONS

- CEG-2000 is easiest to install in temperatures of 70 – 85° F (21 – 29° C); higher temperatures accelerate the set, and lower temperatures extend the set.
- Some ceramic tile, marble or stone can be scratched, stained or damaged by sanded or pigmented grout. White grout is generally best for light colored marble or granite. Test a small area prior to use.
- Tile with high absorption, surface porosity or rough, textured surfaces and certain types of porcelain may require sealing prior to grouting to prevent staining. When required, use TileLab® SurfaceGard® Stone, Grout & Tile Sealer to prevent grout staining.
- CEG-2000 is not recommended for manufacturing facilities where heavy keytone solvents are used. Non-rinse enzyme-based cleaners may break down and permanently damage the epoxy grout; enzyme cleaners may be used, but must be thoroughly rinsed from the surface.

4. Technical Data

APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108.6, A118.3, American National Standards for the Installation of Ceramic Tile

ASTM International (ASTM)

- ASTM C308, Initial setting time, service strength setting time.
- ASTM C531 Shrinkage of the mixed components during cure.
- ASTM C579 Compressive strength
- ASTM C307 Tensile strength of cured material

Resilient Floor Covering Institute (RFCI) — Recommended Work Practices for Removal of Resilient Floor Coverings

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

APPROVALS

CEG-2000 exceeds ANSI A118.3 standards and conforms to requirements for chemical resistance, tile setting and grouting epoxy defined by ANSI A108.6 and ANSI A118.3.

TECHNICAL PROPERTIES

Property	Results
ANSI standard	A108.6, A118.3
Pot life	1 hour
Initial set	2.75 hours
Final set	18–24 hours
Shrinkage	
7 days	<0.20%
Compressive strength	10,000 psi (703.2 kg/cm ²)
Tensile strength	
7 days	2500 psi (175.8 kg/cm ²)
Bond strength	1800 psi (126.6 kg/cm ²)
Thermal shock	950 psi (66.8 kg/cm ²)

ENVIRONMENTAL CONSIDERATIONS

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

Use of CEG-2000 can contribute to LEED® certification.

5. Installation

PREPARATORY WORK

Tile or stone must be firmly bonded to a sound substrate, and setting material must be cured a minimum 24 – 48 hours before grouting, unless rapid setting mortars are used. See the corresponding data for the rapid setting bonding mortars used for your application. Remove spacers and ensure that the grout joints are uniform in depth and width and free of loose debris, contaminants and excess mortar. Use TileLab SurfaceGard Stone, Grout & Tile Sealer to seal tile or stone subject to staining.

Mix materials per the following guidelines:

Open Part B and stir thoroughly. Add the entire contents of Part A to Part B and stir to achieve a homogeneous consistency, eliminating any color streaks. Do not mix partial units. Scrape the bottom and sides of the container while mixing. Do not over-mix; over-mixing will cause the epoxy to flash set.

METHODS

Grout Application:

Immediately after mixing the material, remove all grout from the container and spread it over the surface to be grouted. When grouting walls, place epoxy on a mortarboard and grout the vertical surfaces as soon as possible. Apply grout using a hard rubber float, filling joints even with the surface of the tile. To prevent pinholes and slumping of the

epoxy grout, it is important to achieve 100% fill coverage, with no voids in the joints. To simplify final cleaning, remove as much excess as possible. Avoid gouging the joints and do not allow epoxy to set on the tile surface. Apply liberal amounts of clean, cool water to the grouted area. Using a grout sponge, work in a circular motion to loosen epoxy film and smoothly finish the joints. Change the rinse water frequently to minimize epoxy residue. As a final step, clean film from the tile by dragging a clean, wet cotton towel flatly across the tiles.

Mortar Application:

Spread the CEG-2000 onto the substrate with the flat side of the trowel, skim coating the surface, and then apply the mortar using the notch side of the trowel. (see trowel selection guide for notch selections) Troweling should leave enough mortar to give 100% contact with the back of the tile and leave a mortar bed of about 1/16" (1.6 mm) for ceramic mosaic tile and 1/8" (3 mm) for quarry tile. Approximate tack time is 30 minutes at 75° F (24° C). Should epoxy mortar get on the surface of the tile, immediately remove it with a damp sponge. Epoxy residue should not be allowed to cure on unintended surfaces.

Curing

Curing time is affected by ambient and surface temperatures and humidity. Use the following as a guideline.

- Allow light traffic after 24 hours and heavy traffic after 72 hours. Protect from harsh industrial cleaners for 7 days; protect from aggressive chemicals for 14 days. For the first 7 days, use clean water only. If haze is present the day after grouting, contact Technical Services or refer to the website for instructions regarding the removal of cured or hard epoxy.

Cleaning

Clean tools and hands with water before the material dries.

PRECAUTIONS

Safety — CAUTION — This product may cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for Silica dust. Wear appropriate rubber gloves or other protective clothing as required. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

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

CEG2000 Epoxy is eligible for a lifetime installation system 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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Coverage

Coverage will vary depending on tile size and joint width

Square Foot Coverage per 2 Gallon Unit	Joint Width				
	1/16" (1.5 mm)	1/8" (3 mm)	1/4" (6 mm)	3/8" (9.5 mm)	1/2" (13 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	106 (9.9)	54.8 (5.1)	29.3 (2.7)	21.1 (2.0)	17.1 (1.6)
2" x 2" x 1/4" (50 x 50 x 6 mm)	208.6 (19.4)	106 (9.9)	54.8 (5.1)	37.8 (3.5)	29.3 (2.7)
4 1/4" x 4 1/4" x 1/4" (108 x 108 x 6 mm)	439.6 (40.9)	221.4 (20.6)	112.4 (10.5)	76.1 (7.1)	58 (5.4)
6" x 6" x 1/4" (150 x 150 x 6 mm)	619.2 (57.6)	311.2 (28.9)	157.3 (14.6)	106 (9.9)	80.3 (7.5)
8" x 8" x 3/8" (200 x 200 x 9.5 mm)	549.7 (51.1)	275.9 (25.7)	139.1 (12.9)	93.4 (8.7)	70.7 (6.6)
12" x 12" x 3/8" (300 x 300 x 9.5 mm)	823.5 (76.6)	412.8 (38.4)	207.5 (19.3)	139.1 (12.9)	104.9 (9.8)
16" x 16" x 3/8" (400 x 400 x 9.5 mm)	1097.3 (102)	549.7 (51.1)	275.9 (25.7)	184.7 (17.2)	139.1 (12.9)