

## PRODUCT DATA SHEET

# SikaTile®-825 Epoxy Grout

100% SOLIDS EPOXY MORTAR AND GROUT



### PRODUCT DESCRIPTION

SikaTile®-825 Epoxy Grout is a premium, Epoxy Grout and Mortar with Colored Quartz. It is a three-component, 100%-solids, epoxy grout and mortar formulated for non-sag and non-slump in joints from 1/16" (1.5mm) up to 3/8" (10 mm) in width, water-cleanable and easy to apply. SikaTile®-825 Epoxy Grout uses colored quartz instead of pigment to achieve color consistency, making it excellent for countertops, high-traffic areas, and areas needing stain and chemical resistance.

### USES

SikaTile®-825-Epoxy Grout is a 3-component, 100% solids epoxy compound developed for sanitary applications. SikaTile®-825 Epoxy Grout can be used for setting and grouting ceramic tile, quarry tile, pavers, and mosaics on horizontal and vertical surfaces. SikaTile®-825 Epoxy Grout is an excellent setting material for moisture-sensitive and resin-backed tile or stones such as, black, red, and green marbles and metal-backed stone medallions. Use in commercial breweries, dairies, food processing facilities, distilleries, commercial and residential kitchens, bathrooms, and pools. It produces a high-strength mortar and grout that is stain resistant, impermeable, and chemical and shock-resistant.

#### SUITABLE TILE TYPES

- Brick and thin brick
- Cement-based precast terrazzo
- Impervious porcelain and glass tile
- Various marbles (green, black, and red)
- Natural stone tile, granite, and slate

- Vitreous, semi-vitreous or non-vitreous tile:
  - Ceramic, mosaic, quarry, cement body tile

#### RECOMMENDED SUBSTRATES

When used as a setting adhesive, SikaTile®-825-Epoxy Grout can be installed in most interior and exterior residential and commercial installations on floors over the following recommended substrates:

- Brick Masonry
- Cement Backer Board<sup>1</sup>
- Cement Mortar Beds (cured)
- Cement Terrazzo
- Ceramic Tile and Stone
- Concrete
- Exterior Grade Plywood<sup>2</sup>
- Gypsum Drywall<sup>2</sup>
- Gypsum Mortar Bed
- Gypsum Oriented Strand Board<sup>2</sup>
- SikaLevel® Products

<sup>1</sup> Consult cement backer board manufacturer for installation recommendations and to verify acceptability for exterior use.

<sup>2</sup> Interior Use Only.

#### CHARACTERISTICS / ADVANTAGES

- Used for setting and grouting ceramic and quarry tile, pavers, mosaics
- Fill joint widths 1/8" to 3/8" (3.2 mm to 10 mm)
- Excellent setting material for moisture sensitive and resin-backed stones
- High strength mortar that is stain resistant, impermeable, and chemical and shock resistant
- Stain resistant and color consistent grout
- Easy to apply with superior workability and water cleanability
- Non-sag and non-slump in joints, for use in both floor

- and wall applications
- For interior and exterior applications
- Mold and mildew resistant
- No sealer required

## ENVIRONMENTAL INFORMATION

Sika® is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product can contribute towards LEED®

v4.1 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

## APPROVALS / STANDARDS

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

- 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.
- 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 EJ171 Movement Joint Guidelines.

Property	Test Method	Requirement	Typical Results
Water Cleanability	ANSI A118.3 Section 5.1	> 80 minutes	> 90 minutes
Initial Set	ANSI A118.3 Section 5.2	> 2 Hours	> 5 Hours at 70°F (21°C)
Sag in Vertical Joints	ANSI A118.3 Section 5.4	No Change	Pass
Shear Bond Strength to Quarry Tile	ANSI A118.3 Section 5.5	> 1,000 psi	> 1,200 psi

## PRODUCT INFORMATION

<b>Chemical Base</b>	Epoxy resin, hardener and colored quartz
<b>Packaging</b>	2 Gallon (7.57 L) Commercial Unit
<b>Appearance / Color</b>	Available in 12 colors; Refer to SikaTile® grout kit or color card for actual colors
<b>Shelf Life</b>	12 months from date of production when stored in original, sealed package
<b>Storage Conditions</b>	Store in undamaged, original, sealed package, in dry conditions at 73° F (23° C)

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	> 7,000 psi - Passes ANSI A118.3 Section 5.6 (requirement of >3,500 psi)
<b>Shrinkage</b>	< 0.25% - Passes ANSI A118.3 Section 5.3
<b>Tensile Adhesion Strength</b>	> 2,000 psi - Passes ANSI A118.3 Section 5.7 (requirement of >1,000 psi)
<b>Joint width</b>	1/16" to 3/8" (1.5 mm to 10 mm)

# APPLICATION INFORMATION

## Coverage

SikaTile®-825 Epoxy Grout Coverage in sqft. (m <sup>2</sup> ) per 1 gal. (3.79 L)*				
Tile Size	Grout Joint Width			
	1/16" (1.5 mm)	1/8" (3 mm)	1/4" (6 mm)	3/8" (10 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	57 (5.2)	31 (2.8)	18 (1.7)	14 (1.3)
2" x 2" x 1/4" (50 x 50 x 6 mm)	108 (10.0)	57 (5.2)	31 (2.8)	22 (2.0)
4" x 4" x 3/8" (100 x 100 x 10 mm)	211 (19.6)	108 (10.0)	57 (5.2)	40 (3.7)
6" x 6" x 3/8" (150 x 150 x 10 mm)	141 (13.1)	72 (6.7)	38 (3.5)	26 (2.4)
8" x 8" x 3/8" (200 x 200 x 10 mm)	314 (29.2)	160 (14.8)	82 (7.6)	57 (5.2)
12" x 12" x 3/8" (300 x 300 x 10 mm)	278 (25.8)	141 (13.1)	72 (6.7)	49 (4.6)
18" x 18" x 3/8" (150 x 610 x 10 mm)	416 (38.6)	210 (19.5)	107 (9.9)	72 (6.7)
24" x 24" x 3/8" (610 x 610 x 10 mm)	622 (57.8)	313 (29.0)	158 (14.7)	107 (9.9)
6" x 24" x 3/8" (150 x 610 x 10 mm)	334 (31.0)	169 (15.7)	86 (8.0)	59 (5.4)
12" x 24" x 3/8" (300 x 610 x 10 mm)	554 (51.4)	279 (25.9)	141 (13.1)	95 (8.8)

  

* Setting Coverage in sq. ft. (m <sup>2</sup> ) per 2 Gallon Unit (7.58 L)		
Trowel Size	3/16" x 1/4" V-Notch	1/4" x 1/4" Square Notch
Coverage	72 (6.7)	44 (4.1)

\*Coverage shown is for estimating purposes only. Actual coverage may vary due to installation techniques and actual tile types and sizes used on the job.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

- Do not use SikaTile®-825 Epoxy Grout below 50° F (10° C) or above 95° F (35° C) and do not allow product to freeze for the first 72 hours.
- 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 Sikasil® N-Plus.
- For use as a grout:**
  - Joint width should be between 1/16" and 3/8" (1.5 and 10 mm).
  - Do not use for white or translucent marble.
  - Do not use in areas subject to excessive heat.
- For use as a mortar:**
  - Do not install over substrates containing asbestos.
  - Do not exceed 1/4" (6 mm) in epoxy mortar thickness

under the tile.

- Do not apply over particleboard, oriented strand board (OSB), Masonite, chipboard, Lauan, gypsum floor-patching compounds or other unstable substrates.
- Do not use for setting white or translucent marble.
- Do not install over peel-and-stick crack-isolation membranes or cutback adhesive residue.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

### DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

0 g/L

# APPLICATION INSTRUCTIONS

## SURFACE PREPARATION

For best results, the temperature of the substrate or tile must be between 50°F and 95°F (10°C and 35°C) while grouting. For proper curing, maintain this temperature range for 72 hours after application. All surfaces must be structurally sound (deflection not to exceed 1/360 of the span), dry, clean, and free from oil, grease, wax, paint, old adhesives, sealers, and curing compounds. Any contaminates which inhibit proper bond must be removed. Substrate preparation should be completed following ANSI A108 AN-2 "General Requirements for Sub-surfaces". All substrates should be plumb and true, surface deviation should not exceed 1/4" in 10'. Patching, leveling or areas requiring a mortar bed should be prepared using SikaLevel® Underlayments. Movement (Expansion) joints should be provided to comply with TCNA method EJ171. Concrete must be free of any negative hydrostatic pressure and/or excessive moisture.

### For use as a grout:

- Before grouting, make sure that the tiles or stones are firmly set and that the adhesive or mortar is completely dry and remove all spacers.
- Grout joints must be clean and free of standing water, dust, dirt, and foreign matter. Remove excess adhesive or mortar from the joint area so that 2/3 of the tile depth is left available for grouting.
- Clean the tile or stone surface to remove dust, dirt, mortar, adhesive and other contaminants that may cause grout discoloration.
- The application of a grout release over certain types of tiles such as unglazed polished porcelain, glazed or unglazed textured porcelain, or stone may be advantageous where a fine surface porosity might trap fine quartz particles or color pigments.

### For use as a mortar:

- All substrates should be structurally sound, stable, dry, clean, and free of any substance or condition that may reduce or prevent proper adhesion.

## SUBSTRATES

**Concrete Substrates:** All concrete substrates should be cured a minimum of 28 days. Smooth steel troweled floors should be roughed up using mechanical chipping, scraping, or shot blasting. Dampen porous or dry concrete prior to installation of tile. Do not leave puddles or standing water. Rough or uneven surfaces

should be made smooth with a Latex Portland cement underlayment to provide a wood float or better finish. Do not level with asphalt-based products. Concrete should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5 lbs. per 1,000 sq. ft. in 24 hours. Existing joint openings larger than 3/16" must be prepared and filled with approved caulking or sealant prior to the application of primer and elastomeric membrane.

**Patching, Self-Leveling Compounds, Lightweight Gypsum Concrete:** Should be cured to the minimum manufacture's requirement for moisture-sensitive installations.

**Plywood and OSB Substrates:** Must be a minimum of two (2) layers 5/8" exterior grade plywood (EGP). Plywood shall be securely fastened in accordance with industry standards. Maintain a 1/8" gap between plywood sheets and all surfaces they abut. Joints in the top layer should be offset from the joints on the bottom layer. Maximum joist spacing should be 16" on center and the deflection of the floor structure and sub-floor must not exceed L/360 of the span under combined live or dead loads.

**Other Substrates:** All other substrates and or sub-flooring systems shall be installed in a manner approved by both the product manufacturer and using appropriate installation method.

## MIXING

Employ all appropriate safety equipment before use. Refer to the Safety Data Sheet for details. SikaTile®-825 Epoxy Grout parts A (2 lbs.), B (1 lbs.) and C (10 lbs.) are packaged to ratios for proper curing. Stir then pour all material from the Part A containers into the mixing bucket then repeat using Part B. To ensure product performs to specifications empty out all contents of Part A and Part B by using a margin trowel to thoroughly scrape all material from the containers. Add all of Part C colored powder. Always mix complete units and do not add any other materials to this mixture. Use a slow-speed mixer (at 300 rpm), or manually mix with a margin trowel. Avoid prolonged mixing, which will trap air and shorten the pot life. Mix thoroughly until a homogenous, consistent color is obtained with a thick peanut butter like consistency. Scrape the edges of the

mixing container at least once during mixing. Wash tools immediately with water before the epoxy hardens. Do not place the lid on the container after the material has been mixed.

## APPLICATION

Read all installation instructions before installation.

### For use as a grout:

Remove mixed SikaTile®-825 Epoxy Grout product from the container and place it in small piles (if grouting a wall, place the product on kraft paper laid on the floor). Use an epoxy grout float with a sharp edge to force the grout into the joints in a continuous manner, leaving it flush with the tile edge and be sure that all joints are well-compacted and free of voids or gaps. Thoroughly remove excess grout from the face of the tile before it loses its plasticity or begins to set by holding the rubber float at a 90-degree angle to the tile surface and dragging the float across the tile surface diagonally to the grout lines. Clean tiles immediately after applying each unit of SikaTile®-825 Epoxy Grout by applying a liberal amount of cold water to the freshly grouted area. Scrub the tile surface diagonally to the joint line using a white nylon scouring pad. Apply enough pressure on the pad to loosen any film without removing grout from the joints. Rinse pads frequently while cleaning. To remove the loosened epoxy residue and water, drag a clean sponge diagonally across the tile surface. Use one side of the sponge for each pass over the tile, rinsing the sponge following the second pass and regularly changing water in the buckets to avoid residue buildup. Do not allow SikaTile®-825 Epoxy Grout to harden on the tile surface. Do not step on freshly cleaned tiles, as this could permanently damage the grout.

### For use as a mortar:

Remove the mixed SikaTile®-825 Epoxy Grout product from the container and place it in piles on the floor. Choose a notched trowel with sufficient depth to achieve more than 80% mortar contact to both the tile and substrate for all interior applications, and more than 95% for exterior, commercial floor and wet applications. It may be necessary to back-butter the tile to meet these requirements. With pressure, apply a coat of mortar by using the flat side of the trowel to key the mortar into the substrate. With the notched side of the trowel, apply additional mortar by combing it in a single direction parallel to the shortest dimension of the tile. Spread

only as much mortar as can be tiled before the product skins over. Open time can vary with jobsite conditions. Set tiles firmly into the wet mortar and push the tiles back and forth in a direction perpendicular to trowel lines to collapse the mortar ridges and to help achieve maximum coverage.

### FINAL CLEAN UP:

After 24 hours, the grout installation can be cleaned with clean water. Cleaning with acid is not recommended.

### MOVEMENT JOINTS:

All expansion, control, construction, cold, saw-cut, isolation, contraction, and seismic joints in the structure should continue through the tilework, including such joints at vertical surfaces, as specified per TCNA Method EJ171 or TTMAC Specification Guide 09 30 00, Detail 301MJ.

### PROTECTION:

Do not disturb grout or walk over installed tiles for at least 24 hours after setting. Do not allow any activity in the area that will cause dirt or debris to become embedded in the grout joints as they are curing. Do not allow heavy traffic over installed tiles for at least 48 hours after setting. For residential showers and tub surrounds, restrict use for 10 days after grouting before water immersion or exposure to chemicals. For steam showers, restrict use for 14 days after grouting.

### MAINTENANCE:

Sealing is not required. Grout must be fully cured for 3 days before regular cleaning. To maintain a clean tile surface, use a neutral-pH cleaner for maintaining the floor, followed by a clean-water rinse. Do not use harsh chemical cleaners to maintain the tile surface. Before proceeding with cleaning, consult the cleaner's manufacturer for compatibility, use, and application instructions. Remove or rinse fatty acid residue from the grout surface to avoid potential grout deterioration caused by prolonged exposure.

### CLEANING OF TOOLS

Clean tools and tile with water before the material dries.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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### Product Data Sheet

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