

PRODUCT DATA SHEET

SikaTile®-815 Secure Grout

HIGH PERFORMANCE, RAPID-SETTING, POLYMER MODIFIED, DUST-LESS GROUT



PRODUCT DESCRIPTION

SikaTile®-815 Secure Grout is a premium, high-performance, fine aggregate, rapid-setting, polymer-modified, color consistent, and efflorescence-free grout. Specially formulated for grouting all types of ceramic and dimensional stone tiles on walls and floors, SikaTile®-815 Secure Grout is water-cleanable and easy to apply and used for joints from 1/16" (1.5 mm) to 1/2" (13 mm) in width, eliminating the need for different grout products. It features innovative Dustless Technology producing less dust than ordinary cement grouts and is designed to promote cleaner working conditions and reduce mess.

USES

- For interior and exterior applications in both residential and commercial applications in dry or wet conditions.
- For floors, walls, countertops, and submerged conditions.
- For joint widths from 1/16" (1.5 mm) to 1/2" (13 mm).
- For application in submerged conditions (swimming pools, spas, water features, and fountains).

SUITABLE TILE TYPES

- Brick and thin brick
- Cement-based precast terrazzo
- Impervious porcelain and glass tile
- Natural stone tile, granite, and slate
- Vitreous, semi-vitreous or non-vitreous tile
- Ceramic, mosaic, quarry, cement body tile

CHARACTERISTICS / ADVANTAGES

- Polymer modified for hard, durable, high performing results
- Stain-resistant, color consistent, and efflorescence free
- For 1/16" (1.5 mm) to 1/2" (13 mm) grout joints
- Easy mixing – just add water, no additives required
- Rapid-Setting
- For interior and exterior floors, walls, and countertops
- Dustless formula – produced significantly less dust than ordinary grouts
- Promotes cleaner working conditions by minimizing dust
- Creamier and easier to spread
- Uses less water for consistent hydration and quicker drying
- No-Slake - No wait. Just mix, trowel, and install
- Mold and mildew resistant

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 A108.10 and A118.7 of the American National Standards for the Installation of Ceramic Tile ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2" or 50mm Cube Specimens)
- 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.
- ISO 13007 - CG2WAF

PRODUCT INFORMATION

Chemical Base	Portland cement, selected aggregates, water retention additives, redispersible polymer
Packaging	10-lb (4.53-kg) bag, 3 bags per carton; 25-lb (11.34-kg) bag
Appearance / Color	Available in 32 colors; Refer to SikaTile® grout kit or color card for actual colors
Shelf Life	18 months from date of production when stored in original, sealed package
Storage Conditions	Store in undamaged, original, sealed package, in dry conditions at 73° F (23° C)

TECHNICAL INFORMATION

Compressive Strength	> 4,800 psi - Passes ANSI A118.7 Section 3.5 (requirement of >3,000 psi)
Flexural Strength	> 1,000 psi - Passes ANSI A118.7 Section 3.7 (requirement of > 1,000 psi)
Tensile Strength	> 600 psi - Passes ANSI A118.7 Section 3.6 (requirement of >500 psi)
Shrinkage	Passes ANSI A118.7 Section 3.3 (requirement of ≤ 0.20%)
Joint width	1/16" (1.5 mm) - 1/2" (13 mm)

APPLICATION INFORMATION

Mixing Ratio

1.76 pints (0.83 L) of cool potable water per 10 lb-bag; 2.2 quarts (2.1 L) of cool potable water per 25-lb bag

Coverage

Grout Coverage in sq ft (m ²) per 10-lb (4.54-kg) Bag					
Tile Size	Grout Joint Width				
	1/16" (1.5 mm)	1/8" (3 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (13 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	42 (3.9)	23 (2.1)	14 (1.3)	10 (1.0)	9 (0.8)
2" x 2" x 1/4" (50 x 50 x 6 mm)	81 (7.5)	41 (3.8)	23 (2.1)	17 (1.6)	14 (1.3)
4" x 4" x 3/8" (100 x 100 x 10 mm)	105 (9.8)	54 (5.0)	28 (2.6)	20 (1.9)	16 (1.5)
6" x 6" x 3/8" (150 x 150 x 10 mm)	156 (14.5)	80 (7.4)	41 (3.8)	28 (2.6)	22 (2.0)
8" x 8" x 3/8" (200 x 200 x 10 mm)	207 (19.2)	106 (9.8)	54 (5.0)	37 (3.4)	28 (2.6)
12" x 12" x 3/8" (300 x 300 x 10 mm)	310 (28.8)	158 (14.7)	80 (7.4)	54 (5.0)	41 (3.8)
18" x 18" x 3/8" (150 x 610 x 10 mm)	464 (43.1)	236 (21.9)	119 (11.1)	80 (7.4)	61 (5.7)
24" x 24" x 3/8" (610 x 610 x 10 mm)	618 (57.4)	314 (29.2)	158 (14.7)	106 (9.8)	80 (7.4)
6" x 24" x 3/8" (150 x 610 x 10 mm)	249 (23.1)	127 (11.8)	65 (6.0)	44 (4.1)	34 (3.2)
12" x 24" x 3/8" (300 x 610 x 10 mm)	413 (38.4)	210 (19.5)	106 (9.8)	72 (6.7)	54 (5.0)

Grout Coverage in sq ft (m ²) per 25-lb (11.34-kg) Bag					
Tile Size	Grout Joint Width				
	1/16" (1.5 mm)	1/8" (3 mm)	1/4" (6 mm)	3/8" (10 mm)	1/2" (13 mm)
1" x 1" x 1/4" (25 x 25 x 6 mm)	116 (7.8)	58 (5.4)	34 (3.2)	26 (2.4)	22 (2.0)
2" x 2" x 1/4" (50 x 50 x 6 mm)	212 (15.0)	106 (9.8)	58 (5.4)	42 (3.9)	34 (3.2)
4" x 4" x 3/8" (100 x 100 x 10 mm)	272 (25.2)	136 (12.6)	71 (6.6)	49 (4.6)	39 (3.6)
6" x 6" x 3/8" (150 x 150 x 10 mm)	401 (37.4)	201 (18.7)	103 (9.6)	71 (6.6)	55 (5.1)
8" x 8" x 3/8" (200 x 200 x 10 mm)	530 (50.2)	265 (24.6)	136 (12.6)	93 (8.6)	71 (6.6)
12" x 12" x 3/8" (300 x 300 x 10 mm)	790 (73.4)	395 (36.7)	201 (18.7)	136 (12.6)	103 (9.6)
18" x 18" x 3/8" (150 x 610 x 10 mm)	1178 (109.4)	589 (54.7)	298 (27.7)	201 (18.7)	152 (14.1)
24" x 24" x 3/8" (610 x 610 x 10 mm)	1568 (145.6)	784 (72.8)	395 (36.7)	265 (24.6)	201 (18.7)
6" x 24" x 3/8" (150 x 610 x 10 mm)	636 (59.0)	318 (29.5)	162 (15.1)	111 (10.3)	85 (7.9)
12" x 24" x 3/8" (300 x 610 x 10 mm)	1050 (97.6)	525 (48.8)	266 (24.7)	179 (16.6)	136 (12.6)

*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.

Pot Life 45 - 60 minutes

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®-815 Secure Grout below 50° F (10° C) or above 95° F (35° C) and do not allow mortar to freeze for the first 72 hours.
- Joint width should be between 1/16" and 1/2" (1.5 mm and 13 mm).
- Do not use SikaTile®-815 Secure Grout on glazed ceramic tile, marble, or stone that can be scratched, stained, or damaged when grouted with pigmented grouts. Follow tile manufacturer's recommendations and test a small area prior to use.
- Tile or stone with high absorption, surfaces that are porous or rough, textured surfaces, and some types of porcelain tile may require sealing prior to grouting to prevent possible staining.

- Color variation can occur due to tile type, tile porosity, job site conditions, application, and cleaning techniques. Variation can be minimized by following directions and using as little water as possible for cleanup.
- Not for use in either industrial applications or in areas subjected to harsh or continuous chemicals, high heat, or high-pressure cleaning. For heavy industrial tile installations, use SikaTile™-825 Epoxy Grout.
- 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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage, and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, environmental, toxicological, and other safety-related data. Users 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.

APPLICATION INSTRUCTIONS

SUBSTRATE 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. 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.

MIXING

To minimize color variation when using multiple containers of the same grout, dry blend the powders prior to the addition of water. Add approximately 1.76 pints (.83 L) of cool potable water for every 10 lb (4.53 kg) or 2.2 quarts (2.1 L) of cool potable water per 25-lb bag of SikaTile®-815 Secure Grout in a clean mixing container. Add the grout to the water slowly; blend by hand or power mixer at low speed (less than 200 RPM). The ideal grout looks stiff but has a creamy consistency. Periodic mixing during use keeps the grout workable, but do not add additional water or additives. When the grout becomes dry and difficult to work, discard and make a new batch. For best results on multiple mixes, have the same person mix the grout to ensure the repetition of the mixing technique.

APPLICATION

Read all installation instructions before installation and reference ANSI A108.10-1999. Slightly moisten the tile surface with a damp grout sponge before application. Holding a rubber grout float at a 45° angle, force grout diagonally into joints ensuring joints are completely filled. Remove excess grout using the edge of the float held at a 90° angle. Cleanup can begin as soon as the grout becomes firm enough to only be slightly indented when pushed. Use as little water as possible for grout cleanup. Excess water will cause variation in color and may cause shrinkage, cracks, or pinholes. Smooth and level joints and, in a circular motion, remove excess grout from tile with a moist small-pore grout sponge. It is best to change cleaning

water and rinse the sponge frequently. Using clean water and a sponge will enhance color uniformity. Remove haze from the tile surface with a soft, dry, microfiber cloth.

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.

CURING TREATMENT

Do not disturb grout or walk over installed tiles for at least 24 hours after setting. Do not allow heavy traffic over installed tiles for at least 72 hours after setting. For at least three days after completion, protect from rain and freezing, and do not immerse the installation in water. For residential showers and tub surrounds, restrict use for 24 to 48 hours after grouting. For steam showers, restrict use for 14 days after grouting.

CLEANING OF TOOLS

Clean tools and tile with water before the material dries

MAINTENANCE

Sealing is not required, but if used apply using a high-performance penetrating grout sealer following the manufacturer's directions. Grout must be fully cured for 21 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.

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 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

SikaTile®-815 Secure Grout
February 2025, Version 01.06
02172010000000146

SikaTile-815SecureGrout-en-US-(02-2025)-1-6.pdf

