

PRODUCT DATA SHEET

SikaTile®-815 Secure Grout (CA)

High performance, rapid-setting, polymer modified grout

PRODUCT DESCRIPTION

SikaTile®-815 Secure Grout (CA) is a premium pre-blended rapid-setting polymer-modified that only requires the only the addition of water for mixing. For joints from 1.5 mm (1/16 in) to 25 mm (1 in).

SikaTile®-815 Secure Grout (CA) provides colour consistent and no efflorescence, strong and durable grout joints and features a creamier consistency than most grouts, making it easier to spread. It is ideal for urgent projects and ones with tight deadlines, as it allows foot traffic just three (3) hours after application.

WHERE TO USE

Suitable for grouting the following types of tiles :

- Ceramic, mosaic, quarry, cement body tile
- Natural stone tile, granite, and slate
- Cement-based precast terrazzo
- Thin brick

For the following applications:

- Residential and commercial interior and exterior floors and walls.
- Where heated floors are present (water and electric systems) interior only
- Wet areas, batch surrounds, showers, gang showers, steam showers and steam rooms
- Shopping malls
- Airport terminals
- For application in submerged conditions (swimming pools, spas, water features, and fountains), the installation system must cure at least 72 hours ^{A)}

^{A)} When using SikaTile-560 LFT Rapid, only 72 hours cure is necessary for submerged conditions (maintain

substrate and ambient temperature 23 °C [73 °F] during the installation and curing period)

CHARACTERISTICS / ADVANTAGES

- Rapid-curing and high initial compression strength allows foot traffic on the grouted area as soon as 3 hours
- Polymer-modified for hard, durable, professional results
- No efflorescence
- Advanced aggregate technology provides an ultra-smooth consistency and unparalleled colour uniformity.
- Very creamy and very easy to clean
- Mold and mildew resistant
- Comes in all SikaTile colours
- No VOC
- Can contribute to LEED® objectives

APPROVALS / CERTIFICATES

SikaTile®-815 Secure Grout (CA) meets or exceed ANSI A118.7 standards

PRODUCT INFORMATION

Composition / Manufacturing	SikaTile®-815 Secure Grout (CA) is formulated with a rapid curing cementitious binder along with redispersible polymers
Packaging	11.34 kg (25 lb) bag
Appearance / Colour	Available in 10 colours; Refer to SikaTile® grout kit or colour card for actual colours.
Shelf Life	9 months from date of production when stored in the original package.
Storage Conditions	Store in an undamaged, original package, in dry conditions at 23 °C (73 °F). For best results, condition the product between 18 °C (65 °F) and 29 °C (84 °F) before using.
pH-Value	Between 11 and 13
Volatile organic compound (VOC) content	0 g/L
CSC MasterFormat®	09 30 00 TILING

TECHNICAL INFORMATION

Compressive Strength		Requirements	Results	(ANSI A118.7)
	24 hours	> 3,4 MPa (500 psi)	> 17 MPa (2500 psi)	
	28 days	> 21 MPa (3000 psi)	>> Exceeds	
Tensile Strength in Flexure		Requirement	Results	(ANSI A118.7)
	28 days	> 6.9 MPa (1000 psi)	pass	
Tensile Strength		Requirement	Results	(ANSI A118.7)
	28 days	> 3.4 MPa (500 psi)	Pass	
Shrinkage		Requirement	Results	(ANSI A118.7)
	27 days	< 0.2%	0.1%	
Water Absorption		Requirement	Results	(ANSI A118.7)
	28 days	< 5%	≤ 2.5%	
Mixing Ratio	Between 2.5 L and 2.8 L ((0.66 US gal. and 0.74 US gal.) per 11.34 kg (25 lb) bag. Approximately 1 part water to 3 ¾ parts powder (by volume)			

Yield

SikaTile®-815 Secure Grout (CA) Coverage in m² (ft²) per 11.34 kg (25 lb) bag *						
Tile Size	Grout Joint Width					
	1.5 mm (1/16 in)	3 mm (1/8 in)	4.5 mm (3/16 in)	6 mm (1/4 in)	10 mm (3/8 in)	13 mm (1/2 in)
25 mm x 25 mm x 6 mm (1 in x 1 in x 1/4 in)	8.3 (89)	4.1 (44)	2.7 (30)	2 (21)	1.2 (13)	0.9 (10)
50 mm x 50 mm x 6 mm (2 in x 2 in x 1/4 in)	16.7 (179)	8.3 (89)	5.5 (59)	4.9 (52)	2.5 (27)	1.9 (20)
106 mm x 106 mm x 6 mm (4 1/4 in x 4 1/4 in x 1/4 in)	35.3 (379)	17.6 (190)	11.7 (126)	8.8 (95)	5.3 (57)	4 (44)
150 mm x 150 mm x 10 mm (6 in x 6 in x 3/8 in)	30 (322)	15 (161)	10 (108)	7.5 (80)	6 (64)	3.4 (37)
200 mm x 200 mm x 10 mm (8 in x 8 in x 3/8 in)	40 (430)	20 (215)	13.3 (143)	10 (107)	10 (107)	4.6 (49)
250 mm x 250 mm x 10 mm (10 in x 10 in x 3/8 in)	50 (538)	25 (269)	16.6 (179)	12.5 (134)	7.5 (80)	5.7 (62)
300 mm x 300 mm x 10 mm (12 in x 12 in x 3/8 in)	60 (645)	30 (322)	20 (215)	15 (161)	9 (96)	6.9 (74)
457 mm x 457 mm x 10 mm (18 in x 18 in x 3/8 in)	91.4 (983)	45.7 (491)	30.4 (327)	22.8 (246)	13.3 (144)	10.5 (113)
150 mm x 457 mm x 10 mm (6 in x 18 in x 3/8 in)	45.1 (485)	22.5 (242)	15 (161)	11.2 (121)	11.2 (121)	5.2 (56)
300 mm x 600 mm x 10 mm (12 in x 24 in x 3/8 in)	80 (860)	40 (430)	26.6 (287)	20 (215)	12 (129)	9.2 (99)
600 mm x 600 mm x 10 mm (24 in x 24 in x 3/8 in)	120 (1291)	61 (656)	40 (430)	30 (322)	18 (193)	13.8 (140)

* 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

Between 30 and 50 minutes

Applied Product Ready for Use

Do not disturb grout or walk over installed tiles for at least 3 hours after grouting. Do not allow heavy traffic over installed tiles for at least 24 hours after grouting. For residential showers and tub surrounds, restrict use for 24 hours after grouting. For steam showers, restrict use for 72 hours after grouting. For steam rooms, restrict use for 7 days. Refer to SikaTile setting mortar used for additional delay before immersion or freezing temperatures.

Waiting Time

Prior to initial clean up: approximately 15 minutes

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) / 50 % r.h. unless stated otherwise.

LIMITATIONS

- Do not use SikaTile®-815 Secure Grout (CA) below 5 °C (40 °F) or above 32 °C (90 °F) and do not allow mortar to freeze for the first 72 hours.
- Do not leave the grout sitting outside and exposed to warm temperature (summer heat) and/or sunlight as the temperature may build up in the bag causing a flash set (hard mixture) in only a few minutes. Always store as per the storage conditions (see page 2).
- Do not use SikaTile®-815 Secure Grout (CA) on glazed ceramic tile, marble, stone or glass that can be scratched, stained, or damaged when grouted with

pigmented grouts. Follow the tile manufacturer's recommendations and test on a sample or in a small inconspicuous area prior to grouting.

- Not for use in either industrial applications or in areas subjected to harsh or continuous chemicals, high heat, or high-pressure cleaning.
- 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® GP.

As well, Sika® recommends:

- To always use cool potable water (warm or hot water will accelerate the reaction resulting in a hard mixture in only a few minutes).
- That 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.
- That some slates and some limestones can show a picture frame effect with cement grouts once dried. Always do a test before proceeding with grouting the installation.
- To keep in mind that colour variation can occur due to

Product Data Sheet

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tile type, tile porosity, job site conditions, application, and cleaning techniques.

- To take in account that experience as shown that variation can be minimized by following directions and using as little water as possible for cleanup to avoid pigment washout (which could result in blotchy grout).

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

For best results, the temperature of the substrate or tile must be between 10 °C (50 °F) and 29 °C (84 °F) 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 tile SikaTile tile setting mortar has sufficiently cured and remove all spacers, pegs or ropes. Remove excess adhesive or mortar from the joint area so that 2/3 of the tile depth is left available for grouting. Grout joints must be clean and free of standing water, dust, dirt, and foreign matter. Clean the tile or stone surface to remove dust, dirt, mortar, adhesive and other contaminants that may cause grout discolouration by using a vacuum with a brush attachment and agitate the surface.

MIXING

Consistency in the mixing process and in the water/powder ratio from batch to batch is essential to achieve consistent results. Before adding water, dry mix the grout to minimize colour variations that may be caused by pigment separation during shipping, especially when multiple bags of different lot numbers are used. Use clean mixing containers and clean tools.

In the mixing container, measure and pour clean, cool potable water and gradually add the powder while mixing at slow speed. Add between 2.5 L (0.64 US gal.) and 2.8 L (0.73 US gal.) per bag of clean, cool, potable water for every bag of SikaTile®-815 Secure Grout (CA). For better colour uniformity, use measuring pails to better control and maintain the same constant proportion of water and grout powder that are mixed. Consistency in the process and in the water/powder ratio in batch-to-batch mixing is paramount to achieving professional results.

Mix using a slow-rotation mixer (350 rpm) until a homogeneous, smooth and easy-to-spread mixture is

obtained. Do not mix too long as this will trap air, which can create pinholes and will reduce the life of the mix, which can cause the grout to harden prematurely. Let mixture sit still (slake) for about 5 minutes, then re-mix without adding any water or powder. Continue to stir the mixture periodically as it is spread to keep grout workable, but never add water. Using an excessive amount of water for mixing or cleaning can weaken the grout joint, cause shrinkage, and produce colour variations.

Note: For best results on multiple mixes, have the same person mix the grout to ensure the repetition of the mixing technique.

APPLICATION

Note: Installation procedure should conform to ANSI A108.10 Standard recommendations.

Lightly dampen unglazed or mat tile with clean, cool water but leave no standing water in the open joint space. With a rigid sharp-edge rubber float held at a 45° angle, force grout diagonally into the joint, ensuring that the grout is well-compacted, free of voids and pin holes. Remove excess grout through successive diagonal passes using the edge of the rubber float held at a sharp 90° angle. The grout should be finished evenly to the base of the cushion or bevelled edge. Allow grout to become firm enough to only be slightly indented when pushed or approximately 15 minutes depending on the type of tile or stone and ambient temperature and humidity conditions.

Use as little water as possible during cleanup of the grout residue on the tiles. An excess amount of water used for mixing or cleaning causes weakening, shrinkage, efflorescence, pin holes and colour variation of the grouted joints. Smooth and level joints and remove excess grout from tile or stone with a slightly damp, but not wet, soft close pore cellulose sponge, wiping with light pressure on the sponge in diagonal strokes.

Change the water and rinse the sponge frequently. Keeping the water and sponge clean helps achieve better colour uniformity in the grout.

Do not use acid wash

Wait at least 2 to 3 hours before removing the final haze from the tile surface by using a hand towel.

WAITING PERIOD BEFORE ALLOWING TRAFFIC

Protect the surface from shocks and vibrations for at least 24 hours. For proper curing, the substrate or tile temperature must be at least 10°C (50°F) for 72 hours after application (or 5°C [41°F] for at least 72 hours when SikaTile®-560 LFT Rapid was used for tile

installation) during the curing period of SikaTile®-815 Secure Grout (CA).

Protect from general traffic for at least 3 hours. If necessary, use load-distributing protection when moving heavy equipment over the tiled area for the first 72 hours.

EXPANSION JOINTS AND CONTROL JOINTS

Install control joints where tiles abut restraining surfaces, around the perimeter of the work and at the base of columns and curbs. Install and space expansion and control joints in all directions in accordance with TTMAC Specification Guide 09 30 00 Detail #301-MJ recommendations.

CAUTION: Do not cut expansion joints in after the tiles have been installed. Install tiles normally and stop when the control joint location is reached. Cut the tile if required and resume setting from the opposite side of the joint. Before proceeding further, rake the joint and leave the tile and joint space clean. **Do not fill expansion joint space after tiling is completed** on the remainder of the job. Install a suitable industry-approved compressible bead and flexible sealant to caulk expansion and control joints.

PROTECTING NEW TILE WORK

On completion of tiled floor, the user of SikaTile®-815 Secure Grout (CA) should inform the owner/agent or general contractor that it is their responsibility to allocate provision of proper installation and protection environments needed after the installation to prevent damage, as well as respecting cure times before exposing the installation to work from other trades.

CLEAN UP

Clean all tools and equipment after use with water. Once hardened, the product can only be removed mechanically.

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MAINTENANCE

ROUTINE MAINTENANCE

As per TTMAC's Hardsurface Maintenance Guide:

- Use only non-oil-based neutral cleaner, non-acidic, neutral PH cleaners.
- Wipe glazed wall tiles periodically using a cloth or sponge dampened with a non-oil-based household cleaner.
- Vacuum glazed floor tiles regularly to remove dirt and other gritty particles, then damp mop or sponge with an all-purpose, non-oil-based cleaner.
- Do not use ammonia, as it will discolor grout.
- Clean unglazed wall and floor tiles in a similar manner using a solution of water and a PH neutral detergent or a tile cleaner following manufacturers recommendations.

CAUTION: Any flooring surface, regardless of how it is finished, can be slippery when wet. Promptly remove liquids or foreign materials that might result in safety hazards before permitting pedestrian traffic.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca