

## PRODUCT DATA SHEET

# SikaTile<sup>®</sup>-860 TG Epoxy

## ULTRA EPOXY TILE GROUT AND TILE ADHESIVE

### DESCRIPTION

SikaTile<sup>®</sup>-860 TG Epoxy is tile grout and tile adhesive two components, specially formulated with 100% solid epoxy grout, hardener, and special additives with very high performance. It offers maximum protection against staining and chemical damage. It is suitable for immersed water areas

### USES

- For tile gap between 1 - 15 mm.
- Wall and floor.
- Interior and Exterior.
- Suitable for fully immersed areas such as swimming pools, fish ponds, fountains, and spas.
- Suitable for highly hygienic installations such as hospitals, factories, veterinary clinics, commercial kitchens, and laboratories.

### FEATURES

- Excellent bonding strength can be used for tiling.
- Excellent resistance to chemicals, black mold, and stains with long durability.
- Easy to apply and easy to clean up with water.

### CERTIFICATES AND TEST REPORTS

- ANSI 118.3 - 1999 (reaffirmed 2005)
- EN 13888 : 2009 RG

### PRODUCT INFORMATION

<b>Composition</b>	Part A : Epoxy Part B : Hardener
<b>Packaging</b>	4.5 kg set (A+B), 4 sets per carton box (18 kg)
<b>Shelf life</b>	12 months from date of production if stored in undamaged and unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions and protected from direct sunlight.
<b>Appearance and colour</b>	Part A : Colored viscous liquid Part B : Brownish viscous liquid
<b>Density</b>	Part A 1.7-1.9 g/cm <sup>3</sup> Part B 1.5-1.7 g/cm <sup>3</sup>

### TECHNICAL INFORMATION

<b>Abrasion resistance</b>	< 0.2% (@1,000 g./1,000 cycles)	ASTM D4060
----------------------------	---------------------------------	------------

<b>Compressive strength</b>	≥ 45 N/mm <sup>2</sup>	ISO 13007-4 / EN 12808-3			
<b>Flexural-strength</b>	≥ 30 N/mm <sup>2</sup>	ISO 130007-4 / EN 12808-3			
<b>Tensile strength</b>	≥ 1,000 psi (69.8 kg/cm <sup>3</sup> )	ANSI 118.3			
<b>Shear strength</b>	≥ 500 psi (34.9 kg/cm <sup>3</sup> ) after thermal shock	ANSI 118.3			
<b>Shrinkage</b>	≤ 1.5 mm/m	ISO 13007-4 / EN 12808-4			
<b>Water absorption</b>	≤ 0.1 g. @240 min.	ISO 13007-4 / EN 12808-5			
<b>Chemical resistance</b>	<b>Chemical resistance (immersion)</b>	<b>1d</b>	<b>7d</b>	<b>ISO 13007-7</b>	
	@10% Hydro-chloric acid	good	good		
	@10% Sodium Hydroxide	good	good		
	@50% Ethyl alcohol	good	good		
	@5% Chlorine	good	good		
	<b>Antimicrobial Activity</b>	<b>Test Method</b>	<b>Result</b>		
	Bacteria	SN 195 920 with Staphylococcus aureus ATCC 6538	Pass (No Growth)		
	Fungi	SAN BIO-12/94 with Pennicillium funiculosum ATCC 36839	Pass (No Growth)		
	<b>Slip resistance</b>	No slip			

## APPLICATION INFORMATION

<b>Consumption</b>	The grout consumption varies depending on the tile's size and thickness and the tile joint's width. (unit: sq.m/1 kg)				
	<b>Tile size</b>	<b>Thickness</b>	<b>Joint width 1 mm.</b>	<b>Joint width 2 mm.</b>	<b>Joint width 3 mm.</b>
	1"x1"	4 mm.	1.8	0.9	0.6
	4"x4"	6 mm.	4.9	2.4	1.6
	8"x8"	6 mm.	9.8	4.9	3.2
	12"x12"	6 mm.	14.7	7.3	4.9
	18"x18"	8 mm.	14.7	7.3	4.9
	<b>Tile size</b>	<b>Thickness</b>	<b>Joint width 4 mm.</b>	<b>Joint width 5 mm.</b>	<b>Joint width 6 mm.</b>
	1"x1"	4 mm.	0.5	0.4	0.3
	4"x4"	6 mm.	1.2	0.9	0.8
	8"x8"	6 mm.	2.4	1.9	1.6
	12"x12"	6 mm.	3.6	2.9	2.4
	18"x18"	8 mm.	3.6	2.9	2.4
	(roughly 1 inch = 2.5 cm. = 25 mm.)				
	Note: Waste will occur according to actual field performance including working method, skill, and site condition.				
<b>Ambient air temperature</b>	min. +10°C to max. +35°C				
<b>Mixing ratio</b>	Part A : Part B = 2 : 1 part by weight				
<b>Pot Life</b>	60 min. at 25°C				

<b>Curing time</b>	24 hr.
<b>Waiting time</b>	Epoxy grout can be applied after 24 hours of tiling application. Wait 24 hours before light foot traffic.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Do not apply the product if the humidity of the substrate is higher than 80% R.H.
- Mixing ratio of Part A/Part B is 2/1 by weight, which must be strictly followed. Wrong mixing ratio will result in poor performance of product hardness and setting time.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage, and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- The tiles must be securely fixed.
- Joint must be clean and dry.
- The gap between tiles should not exceed 15 mm.

### MIXING

- Use a power drill with a mixing paddle at a slow speed of 200-500 rpm.
- Mix SikaTile®-860 TG Epoxy part A and B with a power drill until the compound is evenly distributed, lump-free, and a thick creamy paste is achieved.
- Ensure to scrape the bottom and sides of the container during mixing.
- SikaTile®-860 TG Epoxy should be used within 30 minutes after mixing. (depends on working temperature)

## APPLICATION

- Wait 24 hours after tilling before applying tile grout
- Use a rubber trowel to fill the joint in a diagonal motion
- Wipe off excess grout
- Ensure the grout is pressed into the joints and not just sitting on top
- After grouting for 30 minutes, wipe away excess grout with a damp sponge with water.
- Remove surplus material from the face of the tiles with a dry cloth.
- Leave it dry for a minimum of 24 hours before light foot traffic and it will complete cure within 7 days.

## CLEANING OF EQUIPMENT

Remove SikaTile®-860 TG Epoxy from tools, equipment, and tiles with clean water immediately after the application.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

**Sika (Thailand) Limited**  
700/37 Moo 5 Amata City Chonburi  
Industrial Estate, T. Klong Tamhru  
A. Muang, Chonburi 20000, Thailand  
Tel : +66 3810 9500  
E-mail : sikathai@th.sika.com  
Website: tha.sika.com



**Product Data Sheet**  
**SikaTile®-860 TG Epoxy**  
August 2024, Version 01.01  
021720301000000108

SikaTile-860TGEpoxy-en-TH-(08-2024)-1-1.pdf