

PRODUCT DATA SHEET

Sikafloor® Terrazzo SA

Epoxy Terrazzo Seamless Decorative Flooring System

DESCRIPTION

Sikafloor® Terrazzo SA is two-component (aggregates exclusive), pigmented, solvent free epoxy resin, mixed and combined (in varying percentages) with fine and/or coarse mineral aggregates (marble or granite), coloured or recycled glass, mirror particles, acrylic chips and non-corrosive metal fragments, to produce customized Terrazzo screeds. Suitable for use in hot and tropical climatic conditions.

USES

Used to form non-slip, abrasion resistant, decorative epoxy resin screeds:

- Airports
- Hospitals
- Railway Stations
- Universities
- Restaurants
- Hotel receptions
- Shopping centres

FEATURES

- High chemical resistance
- Low VOC-content
- Easy application
- Solvent free
- Good mechanical and abrasion resistance
- Anti-slip
- Conforms to main requirements of NTMA guidelines for thin epoxy resin Terrazzo flooring

SUSTAINABILITY

- Sikafloor® Terrazzo SA is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL) certificate No. CL17020432

PRODUCT INFORMATION

Composition	Component A: Liquid Component B: Liquid Component C: Aggregates and powders (By applicator)
Packaging	Part A: 15.80 kg pail Part B: 4.20 kg pail Part C: Varies (By applicator)
Appearance and colour	A wide range of resin colour shades, available upon request.
Shelf life	12 months from date of production, if stored properly in undamaged original packaging.
Storage conditions	Store in a dry area in original sealed packaging at temperatures between +5°C and +30°C. Protect from heat and direct sunlight.

Density	Part A+B: ~1.40 kg/l (mixed)	(ISO 2811-1)
	Part A+B+C: ~2.50 kg/l (mixed - depends on aggregate types and blend ratios)	

Volatile organic compound (VOC) content	< 50 g/l	(US EPA Method 24)
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Solid content by mass	~100 %
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Solid content by volume	~100 %
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TECHNICAL INFORMATION

Shore D Hardness	~80	(ASTM D2240-15)
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Abrasion resistance	< 50 mg (CS 10/1000/1000)	(ASTM D4060-14) (Taber Abrader Test)
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Resistance to impact	1.75 kg-m (no cracks or any other surface damage)	(ASTM D2794-93)
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Compressive strength	≥ 85 N/mm ²	(ASTM C579-18)
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Tensile adhesion strength	≥ 1.5 N/mm ² (concrete failure)	(BS 1881 Part 207)
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Thermal compatibility	Exposure*	Dry heat
	Permanent	+50°C
	Short-term max. 7 days	+80°C
	Short-term max. 12 hrs	+100°C

*No simultaneous chemical and mechanical exposure.

Chemical resistance	Resistant to many chemicals. For further information, contact Sika's Technical Department.	
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Water absorption	~0.05 %	(ASTM C413-01)
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SYSTEM INFORMATION

Systems

Priming coat

Sikafloor®-151 or Sikafloor®-161 (Coverage depends on substrate condition)

Membrane layer (optional)

Sikafloor® M 332 reinforced with Sikafloor® RM 10 (alkali resistant woven glass textile fabric mesh)

For further information, contact Sika's Technical Department.

Body coat

Sikafloor® Terrazzo SA: ~25 kg/m² to make 10 mm final thickness (+ Aggregates)

Grouting layer

Sikafloor® Terrazzo SA

Sealing coat (optional)

- Sikafloor® TC 424 (matt)
- Sikafloor® TC 425 (gloss)
- Sikafloor® TC 468 (transparent version, matt or gloss)

For further information, contact Sika's local representative.

For application on inclined / sloping surfaces:

Use the same systems as described with the addition of Sika® Extender T to the resin part A, before adding filler.

Please note: In case of application of a transparent top coat with higher consumption (as mentioned below), a hazy surface and/or a stronger visible yellowing could be possible after hardening.

APPLICATION INFORMATION

Consumption	Coating System	Product	Consumption
	Primer	Sikafloor®-151 / -161	0.3 - 0.5 kg/m ²
	Membrane Layer	Optional	Contact Sika's Technical Department
	Body Coat	Sikafloor® Terrazzo SA	~25 kg/m ² at 10 mm thick
	Grouting Layer	Sikafloor® Terrazzo SA	~0.3 kg/m ² (min. per layer)
	Sealing coat (optional)	Various	Refer to Product Data Sheet of proposed material

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Ambient air temperature	+5°C min. / +35°C max.
Relative air humidity	80 % r.h. max. (at +25°C) / 50 % r.h. max. (at +30°C)
Dew point	Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.
Substrate temperature	+5°C min. / +35°C max.
Substrate moisture content	< 4% pbw moisture content. Test method: Sika® -Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet)

Pot Life	Temperatures	Time
	+10°C	~60 minutes
	+20°C	~25 minutes
	+30°C	~15 minutes

* No maximum waiting time if fully broadcast surface is free from all contaminations.
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

BASIS OF PRODUCT DATA

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

FURTHER DOCUMENTATION

- Substrate quality & Preparation: Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".
- Application instructions: Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".
- Maintenance: Please refer to "Sikafloor®- CLEANING REGIME".

IMPORTANT CONSIDERATIONS

- Sikafloor® Terrazzo SA epoxy matrix can be combined with a wide range of fine and coarse mineral aggregate chips (marble or granite), coloured or recycled glass, mirror particles, plastic and non-corrosive metal fragments. The inherent characteristics of the selected aggregate chips (weight, density, resin absorption, size, shape, colour) and amount of uncontrolled dust in these aggregates can all significantly affect the product and application properties, coverage rate achieved and final appearance.
- The applicator's preferred installation technique (slurry and broadcast or traditional screed and trowel) methodology will determine an individual contractor's preference for thixotropy.
- The addition rate of marble dust is variable as it absorbs resin, thickening the matrix, allowing the applicator to make adjustments to meet their specific application technique or site environmental conditions.

- Do not apply Sikafloor® Terrazzo SA on substrates with rising moisture.
- Freshly applied Sikafloor® Terrazzo SA must be protected from damp, condensation and water for at least 24 hours.
- Avoid formation of puddles of primer on surfaces.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- If heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- As aggregates and fillers are customized for each project, product trials and mock ups are mandatory before commencing of any work.

ECOLOGY, HEALTH AND 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

EQUIPMENT

Sikafloor® Terrazzo SA must be thoroughly mixed in a Pan type mixer, electric mixer (300 – 400 rpm), or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor® or Sikadur® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, add the component C and mix for a further 2 minutes until a uniform mix has been achieved.

Over mixing must be avoided to minimise air entrainment.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point. If > 4% pbw moisture content, Sika® EpoCem® range may be applied as a T.M.B. (temporary moisture barrier) system.

Sikafloor® Terrazzo SA system must be applied by recommended experienced applicators. The following is only a brief description for the application procedures:

Primer:

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply primer by brush, roller or squeegee. For more details please consult relevant Product Data Sheet and Method Statement.

Membrane Layer:

Optionally, apply membrane layer onto the floor using rollers and immediately after application start application of reinforcing mesh to bridge static cracks or joints. Contact Sika's Technical Department for further information.

Terrazzo Epoxy Screed:

Apply the mortar/screed evenly using screed boxes, trowels, levelling boards and guide rails where necessary. After a short waiting time thoroughly compact and smoothen the mortar with a trowel or Teflon coated power floater (usually 20 - 90 rpm)..

Grinding:

Start grinding of the screed after approximately 12 hours, using 3 or 4 head mechanical grinding machines. If required, contact Sika Technical Services for advice prior to commencing grinding operations.

Grouting:

Uniformly spread Sikafloor® Terrazzo SA by using a trowel or squeegee, work well into substrate to ensure complete filling of blowholes.

Finishing:

Using a 3 or 4 head mechanical grinder with 80-120 grit, resin bonded, diamond grinding tools. Execute final grinding and polishing applications.

Sealer:

Apply sealer as the final wearing course by using a short pile roller or airless spray equipment.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

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 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.

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ISO 9001, 14001, 45001 – SGS
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- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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