

PRODUCT DATA SHEET

Sikafloor® Terrazzo

Low VOC, Low Odour, Pigmented Epoxy Resin Binder for Thin-Set Terrazzo Floor Systems 6 - 9 mm

DESCRIPTION

Sikafloor® Terrazzo is a two- component, solid color, low VOC, low odour, selfpriming, thin-set epoxy resin binder available in an unlimited color selection. Vibrant epoxy matrix colors can be combined in varying percentages with fine and or coarse mineral aggregates (marble or granite), colored or recycled glass, mirror particles, plastic chips and non-corrosive metal fragments to produce limitless customer design options. Sikafloor® Terrazzo is an extremely durable seamless finish that has excellent resistance to abrasion and common chemicals.

USES

Sikafloor® Terrazzo may only be used by experienced professionals.

Sikafloor® Terrazzo is the ideal choice to provide extreme durability and easy of maintenance in heavy traffic commercial and institutional areas such as hospitals, pharmaceutical research centers, schools, banks, building lobbies, shopping centers, grocery stores, airport terminals, train stations, convention centers.

CHARACTERISTICS / ADVANTAGES

- Meets the Terrazzo, Tile and Marble Association of Canada (TTMAC) and the
- National Terrazzo and Mosaic Association (NTMA) standards for epoxy terrazzo.
- Unmatched design versatility with custom capabilities.
- Seamless, waterproof and easy to clean and maintain.
- Exceptional abrasion resistance and durability.
- Unlimited colors, no minimum required.
- Can be filled with recycled aggregates.
- Very low life cycle costs compared to other floor finishes.

ENVIRONMENTAL INFORMATION

Sikafloor® Terrazzo is listed on the Eco-Product Directory as environmentally friendly product choice for green building initiatives. (application no.: PL-01460-2022)

APPROVALS / STANDARDS

Meet to the requirements of GB/T 22374, GB/T 2567-2008

PRODUCT INFORMATION

Chemical Base	epoxy resin	
Packaging	Part A:	19.3kg containers
	Part B:	4.7 kg containers
	Part C:	1.0 kg containers
	Part D:	25 kg bag
Shelf Life	12 months from date of production	
Storage Conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	

Appearance / Colour	Resin - part A:	coloured, liquid
	Hardener - part B:	transparent, liquid
	pigment- part C:	coloured, liquid
	Aggregate- part D:	coloured, powder
	Other colours, please inquire Sika.	
Density	Part A:	~1.4 kg/l
	Part B:	~1.0 kg/l
	Part C:	~1.5 kg/l
	Mixed resin:	~1.4 kg/l
All Density values at +23°C.		
Solid Content by Weight	100%	
Solid Content by Volume	100%	
Volatile Organic Compound (VOC) Content	<60g/L	GB/T 22374

TECHNICAL INFORMATION

Shore D Hardness	~85	GB/T 22374-2018
Abrasion Resistance	< 0.03 g	GB/T 22374-2018
Resistance to Impact	heavy	
Compressive Strength	~ 63 MPa	GB/T 22374-2018
Tensile Adhesion Strength	≥ 3 MPa (failure in concrete)	GB/T 22374-2018
Tear Strength		
Thermal Compatibility	Exposure Dry heat Permanent	+50°C
	Short-term max. 7 d	+80°C
	Short-term max. 8 h *	+100°C
	Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.) *No simultaneous chemical and mechanical exposure.	
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	

SYSTEM INFORMATION

Systems	System	Product
	Levelling(optional):	Sikafloor®-Level
	Primer:	1-2 x Sikafloor®-156/-161L
	Anti-cracking layer:	Sikafloor®-325SL
	Terrazzo mortar:	Sikafloor® Terrazzo + Aggregate
	Sealer	Sikafloor®-169 CN
	Curing agent(optional):	Sikafloor®-Proseal Finish

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B: Part C =77:19:4 (by weight) (A+B+C) : Aggregate = 1:4 *Resin/Aggregate recommended ratio is 1:4.
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Consumption

System	Product	Consumption
Levelling(optional):	Sikafloor®-Level	~1.7kg/mm/m ²
Primer:	1-2 x Sikafloor®-156/-161L	0.3-0.5kg/m ²
Anti-cracking layer:	Sikafloor®-325SL	1-1.4kg/m ²
Terrazzo mortar:	Sikafloor® Terrazzo + Aggregate	~2.5kg/mm/m ²
Sealer:	Sikafloor®-169 CN	~0.2kg/m ²
Curing agent(optional):	Sikafloor®-Proseal Finish	0.1-0.2kg/m ²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. Lower consumption can cause gloss differences and irregular surface structure, The actual addition of aggregate should be depending on temperature and thickness on site.

Ambient Air Temperature	+10°C min. / +30°C max.
Relative Air Humidity	80% r.h. max.
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.
Substrate Temperature	+10°C min. / +30°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).

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.

LIMITATIONS

- Do not apply Sikafloor® Terrazzo on substrates in which significant vapour pressure may occur.
- Freshly applied Sikafloor® Terrazzo must be protected from damp, condensation and water for at least 16 hours.
- Avoid puddles on the surface with the primer.
- Both substrate and adjacent areas must always be prepared and cleaned thoroughly prior to application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact color matching, ensure the Sikafloor® Terrazzo in each area is applied from the same control batch numbers.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

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.

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

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

If in doubt apply a test area first.

MIXING

Precondition material for at least 24 hours to between 18° to 26°C before use to assist application and achieve the best results.

Pre-stir thoroughly each component of Sikafloor® Terrazzo to ensure all solids and pigments are evenly distributed and even colour or clarity and consistency are achieved within each component.

Where supply format permits, empty Component B into Component A. Alternatively and in the correct ratio by quantity Component A: Component B, empty material into a suitably sized and clean mixing vessel and thoroughly mix using a low-speed drill (300 - 450 rpm) and Exomixer-type mixing-paddle (recommended model). To minimize entrapping air, ensure mixing paddle is kept in the material. To the 25kg mixed unit, slowly add marble dust filler and selected aggregate chips. During the mixing operation, scrape down the sides and bottom of the pail with a flat or straight-edge trowel at least once to ensure thorough mixing. When completely mixed, Sikafloor® Terrazzo should be uniform in colour, aggregate chips should be thoroughly wetted out and the consistency should be homogeneous before use. Mix only the quantity you can use within its pot life.

APPLICATION

Sikafloor® Terrazzo 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. These aggregates can all significantly affect the 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. Due to the wide variety of aggregate chips used to create an unlimited design pallet, it is impractical to produce a single specific mix design that will meet the needs of all parties involved.

The Sikafloor® Terrazzo mix design provided below is a starting point that requires further refinement. It is the responsibility of the terrazzo applicator to conduct additional project specific mix design mock-ups, to finalize adjustments to the mix to achieve an acceptable final appearance, establish production rates, predict pinhole frequency and finalize aggregate and epoxy consumption.

Alternative aggregate chips types, i.e. glass, plastic and non-corrosive metal can be incorporated into the mix design, consult Sika China Technical Services Department for advice.

Pour mixture of Sikafloor® Terrazzo onto the floor, immediately spread and compact the mortar to the de-

sired thickness using a 75 mm (3 in) wide steel trowel. Take care to spread newly mixed materials across the transition of previous applied mixes before the surface begins to set. Allow the applied terrazzo to cure for 18 hours at 23°C before initiating the grinding operation.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use.

Hardened and/or cured material can only be removed mechanically.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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