

PRODUCT DATA SHEET

Sikafloor[®]-155 Terrazzo EP

Special two-component resin for epoxy abrasive stone

DESCRIPTION

Sikafloor[®]-155 Terrazzo EP is a low viscosity, two-component, clear or pigmented epoxy resin.

USES

Sikafloor[®]-155 Terrazzo EP may only be used by experienced professionals.

- Used as a binder for epoxy-matte colored resin mortar.
- Suitable for use in medium- to high-frequency traffic areas.

CHARACTERISTICS / ADVANTAGES

- Transparent or colored
- Low VOC content
- Resistant to mechanical abrasion
- Low viscosity
- Easy to apply
- Multifunctional adhesive

APPROVALS / STANDARDS

- GB/T 22374-2018
- JC/T 2748-2023

PRODUCT INFORMATION

Chemical Base	Epoxy		
Packaging	Part A	9.0 kg/pail	
	Part B	4.05 kg/pail	
	Part A+B	13.05 kg/set	
Appearance / Colour	Part A	Transparent or Colored, Liquid	
	Part B	light yellow, liquid	
Note: Exposure to UV may cause some discoloration (dithering), but has no effect on the performance and function of the paint.			
Shelf Life	12 months		
Storage Conditions	Packaging must be stored properly in the original, unopened and undamaged sealed packaging, protected from light, dry and dry, at temperatures between +5°C and +30°C.		
Density	Part A	~1.12 kg/L	GB/T 6750
	Part B	~0.98 kg/L	
	Mixed resin	~1.09 kg/L	
All Density values at +23°C.			
Volatile Organic Compound (VOC) Content	<60g/L	GB/T22374-2018	

Abrasion Resistance	< 0.03 g	GB/T22374-2018																																	
Resistance to Impact	Heavy load																																		
Compressive Strength	≥75 MPa(add eight times graded sand)																																		
Tensile Strength in Flexure	≥20 MPa(add eight times graded sand)																																		
Tensile Strength	≥ 2.0 MPa (failure in concrete)	GB/T22374-2018																																	
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.																																		
Mixing Ratio	Part A : Part B =100 : 45 (by weight)																																		
Consumption	<p>Point Color Stone Miniature Epoxy Abrasive Stone System (~6mm):</p> <table border="1"> <tr> <td>Primer</td> <td>1 x Sikafloor®-156/-161L</td> <td>1-2 x ~0.3-0.5 kg/m²</td> </tr> <tr> <td>Broadcasting layer</td> <td>1 pbw Sikafloor®-155 Terrazzo EP + 10~12 pbw Sikafloor®-56 Terrazzo Aggregate (0.8-3.2mm)</td> <td>0.18~0.22kg/m² /mm(resin) + 2.22~2.18kg/m² /mm(Aggregate)</td> </tr> <tr> <td>Patching layer</td> <td>1-2x Sikafloor®-155 Terrazzo EP +Sikadur® 505</td> <td>1-2 x0.2 ~0.4 kg/m² 0.5~0.8 kg/m²</td> </tr> <tr> <td>Sealer</td> <td>1-2x Sikafloor®-155 Terrazzo EP + 1xSikafloor®-3150/-315(transparent)</td> <td>1-2 x 0.05kg/m² + 1 x 0.08~0.1 kg/m²</td> </tr> </table> <p>Linglongstone Standard Epoxy Millstone System (6~15mm):</p> <table border="1"> <tr> <td>Primer</td> <td>1 -2x Sikafloor® -156/161L</td> <td>1-2 x ~0.3-0.5kg/m²</td> </tr> <tr> <td>Anti-crack layer (optional)</td> <td>fiberglass cloth (300g/m²)+1 x Sikafloor® -156/161L</td> <td>0.3~0.5 kg/m²</td> </tr> <tr> <td>Flexible crack suppression film (optional)</td> <td>1 x Sikafloor®-324</td> <td>1.0~1.3kg/m²</td> </tr> <tr> <td>Epoxy Terrazzo layer</td> <td>1 pbw Sikafloor®-155 Terrazzo EP + 7~10 pbw Sikafloor®-56 Terrazzo Aggregate (1.6-12.7mm)</td> <td>0.25~0.31kg/m² /mm(resin)+ 2.25~2.19kg/m² /mm(Aggregate)</td> </tr> <tr> <td>Patching layer</td> <td>1-2x Sikafloor®-155 Terrazzo EP +Sikadur® 505</td> <td>1-2 x ~0.2kg/m² 0.5~1.0 kg/m²</td> </tr> <tr> <td>Sealer</td> <td>1-2 x Sikafloor®-419W</td> <td>1-2 x 0.08~0.1kg/m²</td> </tr> <tr> <td>Anti-fouling layer (optional)</td> <td>1-2 x Epoxy terrazzo wax/crystal surface treatment agent</td> <td>1-2 x~0.05kg/m²</td> </tr> </table> <p>The above figures are theoretical and do not include any additional materials used to address surface porosity, cracks, other leveling and losses, etc.</p>		Primer	1 x Sikafloor®-156/-161L	1-2 x ~0.3-0.5 kg/m ²	Broadcasting layer	1 pbw Sikafloor®-155 Terrazzo EP + 10~12 pbw Sikafloor®-56 Terrazzo Aggregate (0.8-3.2mm)	0.18~0.22kg/m ² /mm(resin) + 2.22~2.18kg/m ² /mm(Aggregate)	Patching layer	1-2x Sikafloor®-155 Terrazzo EP +Sikadur® 505	1-2 x0.2 ~0.4 kg/m ² 0.5~0.8 kg/m ²	Sealer	1-2x Sikafloor®-155 Terrazzo EP + 1xSikafloor®-3150/-315(transparent)	1-2 x 0.05kg/m ² + 1 x 0.08~0.1 kg/m ²	Primer	1 -2x Sikafloor® -156/161L	1-2 x ~0.3-0.5kg/m ²	Anti-crack layer (optional)	fiberglass cloth (300g/m ²)+1 x Sikafloor® -156/161L	0.3~0.5 kg/m ²	Flexible crack suppression film (optional)	1 x Sikafloor®-324	1.0~1.3kg/m ²	Epoxy Terrazzo layer	1 pbw Sikafloor®-155 Terrazzo EP + 7~10 pbw Sikafloor®-56 Terrazzo Aggregate (1.6-12.7mm)	0.25~0.31kg/m ² /mm(resin)+ 2.25~2.19kg/m ² /mm(Aggregate)	Patching layer	1-2x Sikafloor®-155 Terrazzo EP +Sikadur® 505	1-2 x ~0.2kg/m ² 0.5~1.0 kg/m ²	Sealer	1-2 x Sikafloor®-419W	1-2 x 0.08~0.1kg/m ²	Anti-fouling layer (optional)	1-2 x Epoxy terrazzo wax/crystal surface treatment agent	1-2 x~0.05kg/m ²
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Ambient Air Temperature	+5 °C min. / +30 °C max.																																		
Relative Air Humidity	80 % max																																		
Dew Point	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.																																		
Substrate Temperature	+5 °C min. / +30 °C max.																																		

Substrate Moisture Content	Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
Pot Life	Temperature	Time		
	+10 °C	~60 minutes		
	+20 °C	~30 minutes		
	+30 °C	~20 minutes		
Waiting Time / Overcoating	Before applying Sikafloor®-155 Terrazzo EP on Sikafloor®-156/161 L allow:			
	Substrate temperature	Minimum	Maximum	
	+10°C	~24 hours	~4 days	
	+20°C	~12 hours	~2 days	
	+30°C	~5 hours	~1 day	
	Before applying Sikafloor®-155 Terrazzo EP on Sikafloor®-324 allow:			
	Substrate temperature	Minimum	Maximum	
	+10°C	~48 hours	~4 days	
	+20°C	~24 hours	~2 days	
	+30°C	~12 hours	~1 day	
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				
Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+10 °C	~24 hours	~5 days	~10 days
	+20 °C	~12 hours	~3 days	~7 days
	+30 °C	~6 hours	~2 days	~5 days
	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 Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- A small area test should be conducted before large-scale construction to determine the influence of the substrate and environment on the material to confirm the final effect of the product.
- Do not leave mixed product in container after the end of the pot life. Fill container completely with quartz sand to stop the rapid exothermic reaction of the product which leads to foaming.
- Do not apply on substrates with rising moisture.
- After application, product must be protected from damp, condensation and direct water contact for at least 24 hours.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- To ensure color consistency, the same batch of products must be used in the same area.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to indentations in the resin.
- If temporary 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.

- Epoxy products can cause yellowing under the action of light, and yellowing has no major impact on the other properties of the product, which is purely a matter of aesthetic appearance.

ECOLOGY, HEALTH AND SAFETY

EQUIPMENT

Sikafloor®-155 Terrazzo EP must be mechanically mixed using an electric mixer with a speed of (300 -400 rpm) and other suitable mixing tools.

For mixing of the millstone mortar, a disk or trough power mixer is to be used, not a free-fall drum mixer.

SUBSTRATE PREPARATION

- Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 MPa) with a minimum tensile strength of 1.5 MPa.
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing /scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.
- High spots can be removed by grinding. Weak cementitious substrates must be removed and surface de-

fects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-156.

- All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

- Before mixing all components, an electric mixer (300-400 rpm) and other suitable mixing tools should be used to stir component A separately, then add all of component B to component A and mix continuously for 3 minutes until a homogeneous mixture is obtained.
- To ensure adequate mixing, pour the ingredients into another dry container and mix again for at least 1 minute to obtain a homogeneous mixture.
- It is important to avoid overmixing and bringing in too much air.
- During the final mixing stage, scrape the sides and bottom of the mixing container with a straight-edged trowel or spatula to ensure complete mixing, which must be done in one set. The mixing time for components A+B is about 4 minutes.
- To make millstone mortar, mix the specified proportion of Sikafloor®-56 Custom Aggregate, then add the mixed Sikafloor®-155 Terrazzo EP to the aggregate and continue mixing until a homogeneous mixture is obtained.

APPLICATION

Before application, check and verify the moisture content of the substrate, relative air humidity, dew point, and substrate, air and product temperatures. If the moisture content of the substrate is > 4%, use Sikafloor® EpoCem® as a temporary moisture barrier (T.M.B.) system.

Pointed Stone Miniature Epoxy Millstone System:

- Primer: Apply Sikafloor®-156/161 L in one or two coats with a roller or squeegee to ensure that the substrate forms a continuous primer coverage without voids. Depending on the requirements of the system, a light broadcast of quartz sand may be applied, as well as a further rolled coat of primer for wet jointing with the epoxy millstone mortar layer. It is recommended to work with a rubber trowel and then cross roll.
- Epoxy Millstone Layer: Pour the mixed material (mixture of Sikafloor®-155 Terrazzo EP and Sikafloor®-56 Terrazzo Aggregate) into a wheelbarrow for

transportation and dump onto the prepared substrate. The material was spread evenly between the ~6mm high dividers at the specified thickness using a hand trowel and squeegee, then compacted and smoothed with the aid of a motorized trowel, with the corners compacted and smoothed by the installer using a hand trowel. After curing of the epoxy abrasive layer, according to the hardness of the aggregate to choose the appropriate size and material of the grinding blade for grinding, until the exposure of the separator strip and the aggregate.

- Patch hole layer: After grinding is completed, clean the floor with water and scrubber and make the floor completely dry. Fill any pinholes or gaps left by the grinding by applying a color-matched coat of Sikafloor®-155 Terrazzo EP and a light dusting of Sikadur® 505 or marble dust, and further grind and polish to a smooth surface.
- Sealer: The terrazzo must be cleaned and allowed to dry completely before applying the sealer. Apply Sikafloor®-3150/315 clear using a steel trowel and roller, see product specifications.

LINGSTONE Standard Epoxy Millstone System:

- Primer: Apply Sikafloor®-156/161 L in one or two coats with a roller or squeegee to ensure that the substrate forms a continuous primer covering without voids.
- Anti-cracking layer (optional): according to the system requirements in the construction of the second primer full layer of reinforced fiberglass cloth, fiberglass cloth edges should be lapped to ensure that the laying of flat, the surface of the surface and then coated with a Sikafloor®-156 / 161 L.
- Flexible crack suppression membrane (optional): according to the system need to set up flexible crack suppression membrane, the surface of the primer should be a small amount of broadcast 0.6-1.2mm quartz sand, the use of toothed trowel uniformly scraped not less than 0.8mm thick Sikafloor®-324, and then rolled with defoaming roller to uniformly defoam, the surface should also be a small amount of broadcast 0.6-1.2mm quartz sand.
- Epoxy millstone layer: the mixed material (mixture of Sikafloor®-155 Terrazzo EP and Sikafloor®-56) was poured into a cart for transportation and dumped onto the prepared substrate. Using a hand trowel and squeegee, the material is spread evenly between the divider strips at the specified thickness and then compacted and smoothed with the aid of a motorized trowel, with the corners compacted and smoothed by the installer using a hand trowel. After curing the epoxy grinding stone layer, according to the hardness of the aggregate to choose the appropriate size and material of the grinding blade for grinding, until the exposure of the separator strip and aggregate.

- Patch hole layer: After grinding is completed, clean the floor with water and scrubber and make the floor completely dry. Then apply a coat of Sika-floor®-155 Terrazzo EP in matching color and sprinkle an appropriate amount of Sika dur 505Q or marble dust to fill any pinholes or gaps left by the grinding. Two or more patches are required to ensure that all the small holes in the surface have been adequately filled, and further grinding and polishing is carried out to achieve the desired floor gloss level.
- Sealer: The terrazzo must be cleaned and allowed to dry completely before applying the sealer. Apply one or two coats of Sikafloor®-419W using a short-bristle roller or airless pump. To achieve the desired gloss level, the Sikafloor®-419W sealer can be polished with a high-speed polishing machine. Please refer to the product specifications.
- A top coat of wax or a crystal finish provides effective protection for the life of the terrazzo. One or two coats of top coat wax or one or two coats of crystal finish need to be applied by the installer to a clean, dry terrazzo floor at the end of the floor's life cycle to achieve the desired gloss level and resistance to contamination.

CLEANING OF TOOLS

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

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-155 Terrazzo EP must have all spillages removed immediately and must be regularly cleaned

using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.

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 recom-

mendations, 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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