


Technical data sheet SICONOFLOOR TERRAZZO

Description of the product	Siconofloor Terrazzo is a ground, jointless decorative flooring system based on mass-coloured epoxy resin with reduced content of VOC and aggregates in the form of transparent glass particles, marble or granite aggregate.
Application	<ul style="list-style-type: none"> Public spaces such as airports, railway stations, shopping centres, hotels, restaurants, meeting rooms, schools, etc.
Properties	<ul style="list-style-type: none"> Very high traction, High gloss and aesthetic finish, Good mechanical characteristics (hardness, tensile strength, bending strength), High chemical resistance, Good resistance to abrasion, Provides hydrophobic properties, 2 to 10 mm (depending on filling with the quartz aggregates) Wide design options depending on colour and fill. Jointless flooring, the occurrence of micro-cracking is unacceptable.
<div>  <div> Construction of the system: <ol style="list-style-type: none"> Concrete bed. Siconofloor GF-E/GW-E priming coating (or other from Siconofloor primers). Structural coating Siconofloor SL100-E., sprinkled with marble aggregate and mechanically grinded and polished An optional Siconofloor varnish coating (PU-Satin/Matin). </div> </div>	
Mechanical properties of Siconofloor Terrazzo	
Dust dryness	24 hours at 20°C
ShA hardness (after 7 days)	100°
ShD hardness (ShD hardness after 7 days 80 ShD)	greater than 50°
Traction	min 2,6 mPa
Compressive strength**	min 90 mPa
Bending strength**	min 30 mPa
Tensile strength***	min 65 mPa
<p><small>** the material analyzed consisted of Siconofloor SL100-E construction resin mixed 1:10 with a suitable aggregate mixture.</small></p> <p><small>*** the tensile strength was tested for Siconofloor SL100-E structural resin without aggregate.</small></p>	
Application conditions	

The substrate temperature must be min. 3°C from the dew-point temperature.			
Minimum ambient temperature			+10°C
Minimum substrate temperature			+10°C
Maximum ambient temperature			+50°C
Maximum relative humidity			80%
Application data			
Order of application	Number of layers	Type of material	Material name
1	1 or 2	Primer	Siconofloor GF-E , optional GW-E
2	1	Construction layer	Siconofloor SL 100-E, consumption approx. 3 kg/ m ²
3	1	Filler	Sprinkle with decorative aggregates until the floor surface is gently saturated. Estimated consumption of decorative aggregates approx. 3.0-18 kg/m ² (depending on the required thickness of the system, the granulation and the type of aggregates used and the decorative effect to be obtained)
4	1	Construction-sealing layer	Siconofloor SL 100-E, consumption approx. 2.0 kg/ m ²
5	Sanding and polishing of the surface to achieve the desired visual effect of the floor. Sanding should begin with the least invasive overlay.		
6	Varnish application using the appropriate Siconofloor varnish.		
Application			
Preparation of the substrate	The substrate must have sufficient compressive strength (minimum 25 N/mm ²). The surface must be level, slightly rough, strong and dry, and free from non-bound particles. The "pull off" test should not give a result of less than 1,5 N/mm ² . If in doubt, apply in a reference area. Fragments of understrength substrate, cement milk and fragments contaminated by oils or other separating agents must be removed mechanically, e.g. by blasting, grinding or milling. The substrate must have open pores before the material is applied. Before the material is applied, the substrate must be dusted and vacuumed.		
Priming and application conditions	The substrate temperature should be +5~30°C (optimum temperature +10-29 °C). Note that the lower the temperature, the longer it takes for SICONOFLOOR GF-E, GW-E and SL100-E to cure. The ambient temperature should be +5~30°C. The moisture content of the substrate should be 5% maximum. The relative humidity of the air should be a maximum of 80%. The temperature of the substrate and the uncured flooring must always be 3°C higher than the dew point temperature. The newly laid SICONOFLOOR SL100-E must be protected from humidity and direct action of water for at least 24 hours after the application has finished. The formation of a milky colour on the surface indicates that the fresh material is in contact with moisture, which results in a discrepancy in the final product characteristics from those declared by SICON. When artificial heating is required, gas heaters, oil heaters, paraffin waxes or other fossil fuels should not be used. During operation of such equipment, large amounts of water and carbon dioxide are released as steam, which significantly interfere with the curing process of the resin. Only use electric heaters for heating.		
Application methods	Mix component A initially, then add component Bo, stir the ingredients until a homogeneous consistency is achieved, but not less than 3 minutes. The mixing ratios of component A and component B are indicated on		

	the packaging and must not be changed. A change in the ratio will result in the product having characteristics different from those declared by the manufacturer. Too long stirring may cause aeration of the resin and should therefore be avoided. Use a slow speed electric stirrer (300 to 400 rpm) or other suitable equipment to mix the resin.
The primer layer	Apply SICONOFLOOR GF-E or GW-E using a roller or a trowel depending on the structure of the substrate, make sure a uniform continuous coating is obtained.
Construction layer	Apply SICONOFLOOR SL100-E using a metal trowel with an appropriate distance to adjust the performance according to the art of painting, ensuring a uniform continuous coating is obtained. The material must be bled with a spiked roller and then sprinkled with decorative aggregates until the surface of the floor is gently dry. After complete hardening, re-perform the operation with Siconofloor SL 100-E resin to level the surface before processing, i.e. before grinding and polishing.
System sealing layer	<p>Apply one of the SICONOFLOOR varnish products using a roller depending on the target structure, ensure that a uniform continuous coating is obtained, if necessary apply a second layer.</p> <p>Wash the tool with acetone or xylene immediately after use. Hardened or bound material can only be removed mechanically.</p>
Storage conditions for kit components	The individual components of the TERRAZZO materials are materials with a reduced tendency to crystallize. Store in a dry place at 5~30°C. Components A and B in the liquid state are water-polluting agents and should not enter sewage systems, land or water courses. The resin after curing is neutral for the environment.
Comments and recommendations	
Health and safety conditions	<p>Wear protective clothing, gloves and goggles whenever handling resin. When working in confined or enclosed spaces, and during drying, adequate ventilation must be provided. Do not weld or expose open flames during the work. Use lighting lamps with the appropriate protection. Detailed information on health, safety and environmental data, toxicological properties of the material, etc. is available in the Material Safety Data Sheet for particular SCONOFLOOR materials. Do not allow contact with the skin. Avoid breathing vapours from heated material. Do not allow individual components to come into contact with acids, strong oxidizers, alkalis. All employees should be thoroughly trained in the handling of epoxy resins and hardeners for existing hazards. Allergy sufferers must not be commissioned to work with resins. Protective gloves and goggles must be worn if there is a risk of resins splashing. Always wash your hands with water and mild cleaning agents after contact with the skin. Do not use benzene, toluene or carbon tetrachloride! For hygiene reasons, do not consume food or drinks in the workplace and do not smoke.</p>
Final remarks	<p>These specifications are based on trials and laboratory tests. The practical results of measurements may differ from those provided, due to circumstances beyond the control of Sicon. All information is given in good faith and takes into account current knowledge and experience. The manufacturer indicates that the colour of the finished floor may vary. This phenomenon does not indicate a defect in the floor or reduced technical parameters. Possible discolouration may occur due to the way the work and drying are performed. It is recommended that particular areas be covered from batches of material from one production run. The product documentation is general information, appropriate under certain conditions. It is recommended that the purchaser carry out an application test under specific construction environmental conditions prior to large-scale application of the product. The supplier has no influence on the types of application, application methods or execution conditions on the site, therefore these instructions may not be held responsible for the end result of the application. Recommendations of Sicon's associates that deviate from the information in the technical sheet are mandatory only if they are confirmed in writing.</p> <p>Release Date: 05/ 2020</p> <p>All previously issued sheets of the Siconofloor TERRAZZO system shall expire on the date of issue of this sheet.</p>



SOLID AND DURABLE INDUSTRIAL FLOOR

TERRAZZO

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