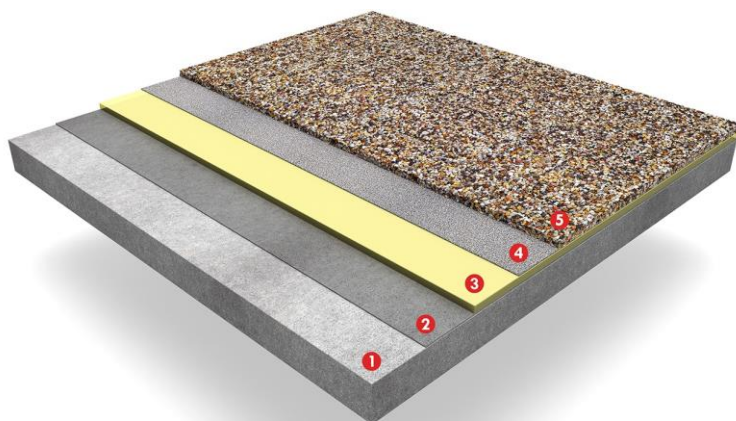


## High build decorative flooring with quartz aggregate filler

<b>System description</b>	SICONOFLOOR CARPET NATURAL STONE is a high build, decorative, epoxy flooring system, based on transparent epoxy resin, with natural quartz aggregate filler. Technology of combining natural aggregate with resins provides an infinite number of possibilities for creating classic and custom designs, and an aesthetic appearance and durability for users. The flooring is characterized by very high mechanical resistance and high chemical resistance, as well as, aesthetic and original appearance. It is a durable finish for mineral surfaces such as concrete or cement plaster and effectively prevents dusting of the substrate and protects it from soaking with liquids or mechanical damage.
<b>Scope of application</b>	SICONOFLOOR CARPET NATURAL STONE is used for very durable pavements in: <ul style="list-style-type: none"> <li>• Exhibition halls,</li> <li>• Terraces,</li> <li>• Balconies,</li> <li>• Park alleys, bike paths,</li> <li>• Garden paths sidewalks,</li> <li>• Driveways, parking lots,</li> <li>• Communication paths inside and outside buildings.</li> </ul>
<b>System properties</b>	<ul style="list-style-type: none"> <li>• Jointless homogeneous surface,</li> <li>• Resistant to moisture,</li> <li>• Very high resistance to scratching and impact,</li> <li>• Very high hardness and abrasion resistance.</li> <li>• Resistant to weather conditions and temperature differences and to salt and chemicals.</li> <li>• The surface slip resistance can be adjusted,</li> <li>• Decorative appearance,</li> <li>• Easy to keep clean and does not require special treatments and preservatives.</li> <li>• Unlimited architectural possibilities,</li> <li>• Available in a large range of colors,</li> <li>• Total thickness of the system 5-10 mm.</li> </ul>



### Construction of the system:

1. Concrete bed
2. Priming coating Siconofloor GF-E/GW-E.
3. Optional coating of ELASTAN.
4. Quartz aggregate
5. Structural coating Siconofloor CS-E with quartz aggregate

### Technical parameters of SICONOFLOOR CARPET NATURAL STONE

Adhesion	> 1.5 N/mm <sup>2</sup>
ShD hardness	>90
Impact resistance (surface Fingerprint balls)	50 mm <sup>2</sup>
Compression strength	80 MPa
Bending strength	50 MPa
Chemical resistance	High
Fire resistance	E <sub>i</sub> -s1 (EN 13501-1:2007)
Hygiene tests	Meets the requirements
Curing time (at a temperature of 20° C):	
Pedestrian traffic	72 h
Full load	10 days

### Application

<b>Substrate preparation</b>	The concrete substrate should be firm, dry (with a moisture content up to 4%, for a moisture content of 5-15% the use of Siconofloor GW-E priming resin is recommended), clean, slightly rough, open-pored, constructed in accordance with building standards. All impurities such as cement slurry, dust, oil content, traces of grease, loose, unbound or weakly bound with the substrate fragments and old coatings should be removed. Average concrete tensile strength as
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	measured by the "pull-off" should not be less than 1.5 MPa. The mature concrete should be sanded. The required time for concrete, cement screeds and repair materials maturation must be observed.		
Preparation of materials	The various materials included in SICONOFLOOR CARPET NATURAL STONE system must be prepared for their application in accordance with the data included in their Data Sheets.		
SICONOFLOOR CARPET NATURAL STONE application conditions			
The substrate temperature should be higher by at least 3° C than the dew point temperature.			
Minimum ambient temperature		+10° C	
Minimum temperature of the substrate		+10° C	
Maximum ambient temperature		+50° C	
Maximum relative humidity		80%	
Application data			
Order of application	Number of coatings	Type of coating	Name of material
1	2	Primer	Siconofloor GF - E; optionally Siconofloor GW-E (additionally, optional use of an elastic waterproofing membrane is possible)
2	1	Quartz aggregate	Fire-dried quartz sand with grain-size of 2.0÷3.0 mm
3	1	Proper coating	Siconofloor CS - E filled with aggregate with grain-size of 5÷12 mm or a different grain-size
4	1	Sealing coating - optional	Siconofloor CS – E
Method of application and consumption	<p>The concrete substrate should be primed in accordance with the instructions contained in the Siconofloor GF-E/GW-E primer Data Sheet. Immediately after the application, the primer should be covered with fire-dried quartz sand with grain-size of 2.0÷3.0 mm, in quantity of approx. 0.5 kg/m<sup>2</sup>. After the primer curing any excess of sand must be removed. Siconofloor CS-E material should be prepared in accordance with the instructions provided in the product Data Sheet - After A and B components mixing, the material must be mixed with fire-dried quartz sand with grain-size of 5÷12 mm, then the prepared mixture must be poured in portions on the primed concrete substrate and evenly distributed with a metal trowel. Consumption of the resin and mineral mix is approx. 20 kg/m<sup>2</sup>/10 mm of the flooring thickness. The distributed mortar must be leveled with fingers or a mechanical float (20-90 rpm) with blades coated with chemical resistant material. The coating must be allowed to cure for at least 24 hours (at +20° C).</p> <p>An optional sealing coating must be prepared in accordance with the Siconofloor CS-E material Data Sheet. The material should be poured in portions on the cured and prepared resin coating together with quartz sand. The target roughness of the flooring can be adjusted by number of the sealing coatings. After the last coating application, the drying temperature should be maintained at above +15° C for at least 24 hours.</p>		
Comments and recommendations			
Health and safety conditions	<p>The materials included in the system, should be used by trained execution team members only. Eye, respiratory system and skin protection devices must be used during the works execution. Adequate ventilation must be ensured when working in confined spaces and when drying. For detailed information on the risks, see the Safety Data Sheets of individual products, available on request.</p> <p><b><i>The coating has no impact on health and the environment, when fully cured.</i></b></p>		
Conditions of the system components storage	<p>The products included in the system and their components should not get into drains, soil or groundwater while uncured. It is essential that the remnants of material are definitively cured. The cured remnants of material should be disposed of in accordance with local regulations.</p>		
Technical support	<p>It is recommended to consult a technical advisor of the Manufacturer, in order to ascertain the correct use of the material and/or system, before using the system.</p>		
Final remarks	<p>The included technical specifications are based on laboratory tests. Actual measurements results may vary from the enclosed ones, due to circumstances beyond the control of Sicon LTD. All information is provided in good faith, taking into account the current state of the art and the experience gained. The manufacturer advises that the color of the executed flooring may vary. The resulting phenomenon does not indicate any defect or reduced technical parameters of the flooring. Any discoloration may occur due to the working or drying methods. It is recommended to execute certain surfaces with materials originating from one production run only. The product documentation provides for general information applicable under certain conditions.</p> <p>It is recommended that before using the product on a large scale, the purchaser tests it under specific construction environment conditions. The supplier has no control over the use, methods of application and execution conditions occurring at the construction site, and therefore no responsibility of the supplier for the final effect of the application may arise from these instructions. Recommendations of Sicon partners that differ from the information included in the Safety Data Sheet shall apply only in the case of their written confirmation.</p> <p>Date of issue: 01/2016</p> <p>All previously issued Siconofloor Carpet Natural Stone safety data sheets shall expire on the date of issue of this sheet.</p>		