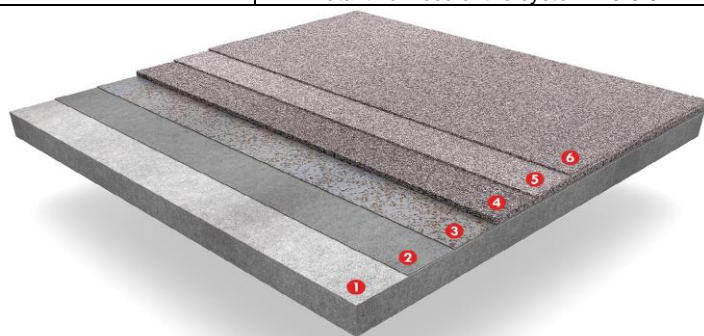


High build flooring with stained quartz aggregate filler

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| System description | SICONOFLOOR DECO-COLOR COMPACT is a high build, decorative epoxy coating system on the basis of transparent epoxy resin with quartz sand colored filler and colorless sealing coating. 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. |
| Scope of application | SICONOFLOOR DECO-COLOR COMPACT is used for very durable pavements in: <ul style="list-style-type: none"> • High-loaded manufacturing halls, • Industrial kitchens, • Slaughterhouses, • Food processing plants (fruit processing, dairies, bakeries, breweries), • Pharmaceutical industry, • Internal car parks and traffic routes (heavy traffic), • Warehouses and loading ramps. |
| System Properties | <ul style="list-style-type: none"> • Very high resistance to scratching and impact, • Very high hardness and abrasion resistance, • The surface slip resistance can be adjusted, • High chemical resistance, • Ease of cleaning and maintenance, • Decorative appearance, • Total thickness of the system 1.5-5.0 mm. |



Construction of the system:

1. Concrete bed.
2. Siconofloor GF-E/GW-E priming coating
3. Coverage with quartz aggregate with grain-size of 1.0-1.6 mm.
4. Siconofloor B50-E structural coating, mixed with quartz aggregate and mechanically blurred.
5. Siconofloor Toplack-E sealing coating.
6. An optional Siconofloor PU-Matin matting coating.

Technical properties of Siconofloor Deco-Color Compact

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| Adhesion | > 1.5 N/mm ² |
| ShD hardness | >90 |
| Impact resistance (surface Fingerprint balls) | 50 mm ² |
| Compression strength | 80 MPa |
| Bending strength | 50 MPa |
| Chemical resistance | High |
| Fire resistance | B _{fl} -s1* |
| Hygiene tests | Meets the requirements; Hygienic Certificate No. HK/B/0757/01/2015 |
| Slip prevention | R10 - R12 |
| Curing time (at a temperature of 20° C): | |
| Pedestrian traffic | 24 h |
| Full load | 7 days |

* According to the Commission Decision 2010/85/EU of 9 February 2010, the product meets the requirements for class E/E reaction to fire without additional testing. According to K/01/PS/2015 report Siconofloor B50-E product is part of Siconofloor Deco Color Compact system and according to EN 13501-1+A1/2010P is classified as Bfl-s1.

Application

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| Substrate preparation | 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, fragments that are loose, unbound or weakly bound with the substrate and old coatings should be removed. Average concrete tensile strength as measured using the "pull-off" method 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 DECO-COLOR COMPACT system must be prepared for their application in accordance with the data included in their Data Sheets. |

Siconofloor Deco-Color Compact application conditions

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| 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 temperature of the substrate and the environment | | | +25° 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 |
| 2 | 1 | Quartz aggregate | Fire-dried quartz sand with grain-size of 1.0-1.6 mm |
| 3 | 1 | Proper coating | Siconofloor B50 - E filled with aggregate with grain-size of 0.8-1.2 mm and dolomite meal |
| 4 | 1 | Quartz aggregate | Fire-dried colored quartz sand with grain-size of 0.8-1.2 mm |
| 5 | 2 | Sealing coating | Siconofloor Toplack E |
| Method of application and consumption | | 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 1.0÷1.6 mm, in quantity of approx. 1 kg/m ² . After the primer curing any excess of sand must be removed. Siconofloor B50-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 0.8+1.2 mm and dolomite meal, 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. 0.7-0.8 kg/m ² /1 mm of the flooring thickness (approx. 0.45 kg/m ² /1 mm of pure Siconofloor B50-E). Then, the still uncured material coating must be dry covered with fire-dried colorful quartz sand (so called MIX) with grain-size of 0.8+1.2 mm (consumption of approx. 3.0+3.5 kg/m ²). After a short time, the 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 12 hours (at +20° C). The sealing coating - must be prepared in accordance with the Siconofloor Toplack E material Data Sheet. The material should be poured in portions on the cured and prepared resin coating together with quartz sand. Theoretical consumption of resin amounts to 0.2 kg/m ² . 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 18 hours. | |
| Comments and recommendations | | | |
| Health and safety conditions | | 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. <i>The coating has no impact on health and the environment, when fully cured.</i> | |
| Storage conditions of components of the system | | 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. | |
| Technical support | | 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. | |
| Final remarks | | 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. 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. Date of issue: 01/2016 All previously issued Siconofloor Deco-Color Compact safety data sheets shall expire on the date of issue of this sheet. | |