

SOLID AND DURABLE INDUSTRIAL FLOOR

SICONOFLOOR ROADWAY SYSTEM

Roadway Surface insulation Technical sheet

Description of the product	The materials included in the Siconofloor Roadway system are intended for the execution of insulation-surface in communication construction within the scope specified in point 2.2 of the National Technical Assessment (KOT), including on the surfaces of pedestrian pavements, bicycle paths, technical pavements, footbridges, car parks, on steel or concrete bridges, drawbridges and modular bridges, as well as on all concrete and steel surfaces.			
Application	Insulation-surface on elements of structures heavily loaded with pedestrian traffic of at least 2 mm thickness and wheeled traffic of at least 4 mm thickness, in particular on: Bridge walkways,			
	 Good chemical and mechanical resistance, Frost resistance, 			
	Flexibility.			
	Product information			
Packin	Sets of 20 kg			
Appearanc	The RAL palette applies. Due to the characteristics of the natural raw materials used, slight colour deviations between individual production batches are possible.			
Storage time	6 months for Roadway BC,BC-PU and Finisher, Finisher PU, and for other materials up to 12 months.			
Storage cond	containers, in neated and dry rooms.			
The performance p	roperties of the Siconofloor Roadway insulation-surface are given in National Technical Assessment (KOT) No. 2022/0854 edition 1. These characteristics depend on the variant and type of product used. Application			
Preparation of the substrate	The concrete substrate should be strong, dry (with a moisture content of up to 4%, in the case of a humidity of 5 15%, it is recommended to use Siconofloor Roadway 150 priming resin), clean, slightly rough, with open pores and made in accordance with construction standards. All impurities such as: cement milk, dust, oil, grease marks fragments that are loose, unbound or poorly attached to the substrate, and old coatings should be removed. The average tensile strength of the concrete, measured by the "pull-off" method, should not be less than 1.5 MPa. The mature concrete must be ground. The required time for maturing of concrete, cement, and repair materials must be observed. The surface of the steel substrate should be cleaned of all impurities, salts and grease. Degree or preparation of the surface Sa 2 ½ according to PN ISO 8501-1:1996. Substrate roughness not less than 75 µm according to PN EN ISO 8502-1909			
Priming conditions	2:1999. The substrate temperature should be +12~30°C. Note that the lower the temperature, the longer it takes f SICONOFLOOR ROADWAY to cure. The ambient temperature should be +12~30°C. The substrate should be dr dust-free and degreased. If the primed surface is left for the next coats, with a break exceeding 48 hours, the primed surfaces should be gently matted by sanding with fine sandpaper and then vacuuming the remaining dust The newly laid SICONFLOOR ROADWAY must be protected from moisture and the direct action of water,			

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NIP: 517 027 17 17 REGON: 1180372420 KRS: 0000633637



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		for at least 24 hours after the completion of the application. The formation of milky discolouration on the surface indicates the contact of fresh material with moisture, resulting in a discrepancy in the properties of the final product from the properties declared by SICON Sp. z o.o Sp. K				
Material preparation		accordance with the data	ed in the SICONOFLOOR ROADWAY systems should be prepared for application in contained in their Technical Data Sheets.			
Application data of the insulation-surface system 3.0-4.0						
Order of application	Numb er of layers	Layer type	Material name			
1	1-2	Primer	Siconofloor Roadway 130; optional Siconofloor Roadway 150			
2	1	Quartz aggregate	Fire-dried quartz sand of 0.8-1.2 mm fraction			
3	1	Main layer	Siconofloor Roadway BC or Siconofloor BC-PU			
4	1	Quartz aggregate	Fire-dried quartz sand of 0.8-1.2 mm fraction			
5	1	Sealing layer	Siconofloor Roadway Finisher or Siconofloor Finisher PU			
Performance of the Siconofloor Roadway epoxy system for		Siconofloor Roadway 130 - 0.5 kg/m ² Quartz aggregate 0.8 -1.2 mm -1.5 kg/m ² Siconofloor Roadway BC – 1.25 kg/m ² Quartz aggregate 0.8-1.2 mm – 3.5 kg/m ² Siconofloor				
thickness 3.0-4.0 Finisher – 1.25 kg/m ²						
epoxy-polyurethane system Siconofloor Roadway for Quartz aggregate 0 Siconofloor Roadway Quartz aggregate 0		Siconofloor Roadway 130 - Quartz aggregate 0.8-1.2 n Siconofloor Roadway BC-F Quartz aggregate 0.8-1.2 n Siconofloor Finisher-PU -	nm -1.5 kg/m² PU – 1.25 kg/m² nm – 3.5 kg/m²			
Description of system implementation		The concrete substrate must be primed according to the instructions given in the Technical Sheet of priming material Siconofloor Roadway 130/Roadway 150- consumption 0.3 kg/m². Directly after laying, the primer should be covered with fire-dried quartz sand with a fraction of 0.8÷1.2 mm, in the amount of approx. 1.5 kg/m². Remove excess sand after the priming layer has hardened. The Siconofloor Roadway BC or Roadway BC-PU material must be prepared according to the instructions in the Technical Data Sheet of the product. The material should be poured in portions on a primed concrete substrate and spread evenly with a metal trowel. The consumption of the resin mixture is 1.25 kg/m², then the unhardened layer of material is covered "till dry" with fire-dried quartz sand with a grain size of 0.8÷1.2 mm - consumption 3.5 kg/m². Allow the layer to cure for at least 12 hours (at +20°C). After this time, the excess sand should be carefully removed with a brush and/or industrial vacuum cleaner then the whole floor should be sanded depending on the expected anti-slip effect. Sealing layer - prepared in accordance with the Technical Data Sheet of the Siconofloor Roadway Finisher or Roadway Finisher -PU material. The material should be poured in portions onto a hardened and prepared resin layer with quartz sprinkles. The theoretical resin consumption is 1.25 kg/m². The number of layers of the sealing layer can be adjusted to the target floor roughness. After applying the final layer, a drying temperature above +15°C should be maintained for at least 18 hours.				
Comments and recommendations						
Health and safety conditions		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 regarding health, safety, ecology, toxicological properties of the materials included in the system, etc. is available in the Material Safety Data Sheet of the relevant SICONOFLOOR ROADWAY product. 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 oxidisers, 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 reasons of hygiene reasons, do not eat or drink in the workplace, and do not smoke there.				
Final remarks		provided, due to circumstan takes into account current k The manufacturer indicates the floor or reduced technic performed. It is recommend	sed on trials and laboratory tests. Practical results of measurements may differ from those ces beyond the control of Sicon z o.o. Sp. K Sp. K. All information is given in good faith and nowledge and experience. that the colour of the finished floor may vary. This phenomenon does not indicate a defect in al specifications. Possible discolouration may occur due to the way the work and drying are led that particular areas be covered from batches of material from one production run. The stitutes general information, appropriate under certain conditions.			

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It is recommended to 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 use, 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.
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