

Technical sheet

Product description	Flexible, chemically hardening, solvent-free, two-component resin preparation intended for insulation and surface treatment in Siconofloor Roadway systems. The basic application is a flexible construction resin that forms an insulation and surface layer for pavements, roadways and bicycle paths on steel or concrete bridges, folding bridges, drawbridges and modular bridges.	
Application	<ul style="list-style-type: none">• Component of systems designed in civil engineering,• For insulation and waterproofing surfaces on concrete and steel surfaces exposed to weather conditions and mechanical loads, such as pavements, footbridges, bicycle paths, ramps, multi-storey car parks and industrial floors,• Can be used as an elastic layer (interlayer) without mineral filler,• Binder for creating repair mortars, screeds and levelling fillers on steel systems.	
Properties	<ul style="list-style-type: none">• Very high adhesion to primed steel and concrete substrates,• Very high degree of flexibility,• Good chemical and mechanical resistance,• High density and viscosity,• Ease of application,• Frost resistance,• Reduced tendency to crystallize,• Possibility of additional permeation with quartz sand.	
Physical properties of Siconofloor Roadway BC		
Density (according to PN EN ISO 2811-1: 2012)	Component A	Out of range
	Component B	0.99~1.15 g/cm³
Working life	30-40 minutes for a temperature of 20°C	
Theoretical consumption of the mixture	0.3~0.6 kg/m² when used as a primer resin	
Colour and smell	Component A transparent and odourless	
	Component B yellowish liquid with a characteristic smell	
Hygiene tests	Meets the requirements;	
Practical consumption of the mixture	Strongly depends on the intended use, substrate quality (absorptivity), application technique, application conditions, degree of roughness. Average consumption 0.3~0.5 kg/m². Two layers of resin are recommended for porous substrates.	
Curing time	8h light loads at 25°C	
	Full load capacity	7 days
Viscosity (according to PN EN ISO 2555:2011)	Component A	6500~11000 mPa*s
	Component B	570~720mPa*s
Application		
Preparation of the substrate	The material is spread over a previously primed surface. Any loose fragments of the substrate, organic and inorganic contamination, cement laitance, which may have a negative effect on the connection of Siconofloor Roadway BC with the substrate, should be removed. Any unevenness should be levelled with PCC material or a filler made of Siconofloor Roadway 130 material and quartz sand. The steel substrate should be cleaned to grade Sa 2½, free from flaking. Before laying, dust should be removed from the surface and the steel, galvanized and cornice elements should be protected against contamination.	
Application conditions	The temperature of the substrate should be +5~30°C. It should be remembered that the lower the temperature, the longer the curing process of SICONOFLOOR ROADWAY BC. Ambient temperature should be +5~30°C. The substrate should be dry and free of dust and grease. If the primed surface is left for the next coat with a break exceeding 48 hours, the primed surfaces should be gently matted by sanding with fine sandpaper and then removing the remaining dust. Freshly applied SICONOFLOOR ROADWAY BC must be protected against moisture and direct exposure to water for at least 24 hours from the completion of application. The formation of laitance discolouration on the surface indicates contact of fresh material with moisture resulting in divergence in the properties of the final product from the properties declared by SICON Sp.K . Sp. z o.o.	
Method of application	Pre-mix component A, then add component B, mix the components until a homogeneous consistency is obtained, but not less than 3 minutes. The mixing ratio of Component A and Component B is shown on the packaging and must not be changed. Changing the proportions will result in a product with properties different from those declared by the Manufacturer. Mixing for too long may cause air entrainment and should therefore be avoided. To mix the resin, use a low speed electric stirrer (300 ~ 400 rpm) or other equipment designed for this.	
Comments and recommendations		
Health and safety conditions	During all work with resins, use protective clothing, gloves and glasses. Adequate ventilation must be provided when working in confined or closed rooms, and during drying. When working, do not weld and do not come close to open fire sources. Use lighting lamps with appropriate safety measures. Detailed information on health, safety, as well as data on ecological, toxicological properties of the material, etc. are available in the Material Safety Data Sheet of SICONOFLOOR ROADWAY BC. Avoid contact with skin. Avoid breathing vapours from heated material. Do not allow individual components to come into contact with acids, strong oxidants, bases. All employees should	

	be thoroughly trained in the handling of epoxy resins and hardeners with regard to the existing hazards. Allergy sufferers must not be commissioned to work with resins. If there is a risk of splashing the resin, use protective gloves and goggles. After each contact of the resin with the skin, wash with water with the addition of mild cleaning agents, do not use benzene, toluene or carbon tetrachloride! For hygiene reasons, you should not eat or drink in the workplace, and also not smoke there.
Concluding remarks	<p>The technical data provided is based on laboratory trials and tests. Practical measurement results may differ from the attached ones, due to circumstances over which Sicon Sp. z o.o. Sp.K. has no control. All information is given in good faith and takes into account the current state of knowledge and experience.</p> <p>The manufacturer informs that the colour of the finished floor may vary. This phenomenon does not indicate a defect of the floor or reduced technical parameters. Possible discolouration may appear because of the way in which work and drying take place. It is recommended to cover specific surfaces with batches of materials from one production batch. The product documentation provides general information that is appropriate under certain conditions.</p> <p>Prior to large-scale use of the product, it is recommended that the purchaser perform an application test under the specific environmental conditions of the construction site. The supplier has no influence on the types of applications, methods of application and conditions of implementation occurring on a construction site, therefore, these instructions cannot result in his responsibility for the final result of the application. Recommendations of Sicon's associates that deviate from the information contained in the technical sheet are binding only if confirmed in writing.</p> <p>Date of issue: 02/2019</p> <p>All sheets for the Siconofloor ROADWAY BC system issued so far shall expire on the day of the issuing of this sheet.</p>