

Technical Data Sheet

Product description	Universal resin impregnation for reinforcing concrete and mineral substrates impregnation. Colorless, two-component, solvent, epoxy, low-viscosity resin. The material is suitable for reinforcing and impregnation of all types of mineral substrate, paving stones, decorative stone.	
Use	<ul style="list-style-type: none">As a resin for the substrate reinforcing,Material to be used inside the buildings as a coating deeply penetrating the old and weak substrates,protecting the concrete surface against dusting.	
Properties	<ul style="list-style-type: none">Very high intercoat adhesion,High degree of transparency,Very good penetration of mineral substrates,Low viscosity,Easy application,Application versatility,Frost resistance,Reduced tendency to crystallize.	
Physical properties of Siconofloor GLV-E		
Form	Component A modified epoxy liquid	
	Component B amine curing agent	
Density (according to PN EN ISO 1675)	Component A	0.95~1.05 g/cm ³
	Component B	0.99~1.18 g/cm ³
Suitability for use	30 minutes at 20°C	
Theoretical consumption of the blend	0.2~1.0 kg/m ²	
Color and odor	Component A colorful and odorless	
	Component B transparent, with a characteristic odor	
Hygiene tests	Meets the requirements; Hygienic Certificate No. HK/B/0757/01/2015	
Practical use of the blend	This strongly depends on the quality and absorbency of the substrate and the degree of strengthening of the substrate to be obtained.	
Curing time	Light load 24h at 25°C	
	Full load	7 days
Viscosity (Brookfield DV-II). The test was conducted at 19°C using 04 spindle and 20 RPM rotational speed.	Component A	250~300 mPa*s
	Component B	700~732mPa*s
Application		
Substrate preparation	The surface must be flat, slightly rough, dark and dry, cleaned of all contaminants. If in doubt, make a reference area. Before the material application, the substrate must have open pores. Immediately before the material application, the substrate must be dusted and vacuumed.	
Priming conditions	Substrate temperature should be +5~30°C. Please note, that the lower the temperature, the longer the process of SICONOFLOOR GLV-E curing. Ambient temperature should be +5~30°C. Substrate moisture content should be a maximum of 5%. Relative humidity of the air should be a maximum of 80%. Temperature of the substrate and uncured flooring must be at least 3°C above the dew point. The freshly applied SICONFLOOR GLV-E must be protected from moisture and direct water impact for at least 24 hours after the end of the application. The formation of milky spots on the surface indicates contact of the fresh material with moisture resulting in a discrepancy between the of properties of the final product and the properties declared by SICON POLSKA. In the case of the need for artificial heating, do not use gas, oil, paraffin nor other fossil fuels heaters. During their operation, those devices emit large amounts of water and carbon dioxide in the form of water vapor, which significantly interfere with the curing of the resin. Use only electric heaters for heating.	
Application methods	First mix A component, then add B component, mix the components until a uniform consistency, but not for less than 3 minutes. Stirring ratios of Component A and Component B are indicated on the packaging and they must not be changed. Changing the proportions results in a product with characteristics different from the ones declared by the manufacturer. Over mixing can cause air entrainment and therefore it should be avoided. Use low speed electric stirrer for the resin mixing (300 ÷ 400 rpm) or another suitable equipment. Apply the material using a synthetic fiber roller according to the art of painting.	
Conditions of the system components storage	SICONOFLOOR GLV-E resin is a material with a reduced tendency to crystallization process. Store it in a dry place at +5~30°C. Components A an B in a liquid state are the agents causing water pollution and should not get into drains, soil and watercourses. After curing the resin is environmentally neutral.	
Comments and recommendations		
Health and safety conditions	Use protective clothing, gloves and goggles when working with resins. Adequate ventilation must be ensured when working in cramped or confined spaces and when drying. Do not weld nor approach naked flame sources, when working. Use the illumination lamps with appropriate protections. Detailed information concerning health, safety, and ecological data, material toxicological properties data, etc. is available in the Material Safety Data Sheet of SICONOFLOOR GLV-E. Do not allow contact with the skin. Avoid inhaling vapors of the heated material. Avoid contact of the individual components with acids, strong oxidizing agents, alkalis. All employees should be	

	thoroughly trained in the handling of epoxy resins and curing agents, in terms of the existing threats. Do not assign work with resins to allergy sufferers. Use protective gloves and goggles in case of the resin splashes risk. After each resin contact with the skin, wash your hands with water and a mild detergent, do not use benzene, toluene or carbon tetrachloride! For hygiene reasons, do not eat, drink, not smoke in the workplace.
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 a 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.</p> <p>Date of issue: 01/2016</p> <p>All previously issued Siconofloor GLV-E safety data sheets shall expire on the date of issue of this sheet.</p>