

**Technical Data Sheet**

Product description	Pigmented, two-component, solvent free, casting epoxy, low-viscosity resin. Ideal as a finishing coating for smooth systems.		
Use	<ul style="list-style-type: none"><li>Material for internal use as a finishing coating,</li><li>As a varnish for smooth systems.</li></ul>		
Properties	<ul style="list-style-type: none"><li>Very high adhesion,</li><li>High degree of gloss,</li><li>Self-leveling resin,</li><li>High chemical resistance,</li><li>Good resistance to abrasion,</li><li>Good mechanical parameters (hardness, tensile strength, bending strength),</li><li>Ensures hydrophobic properties,</li><li>Low viscosity,</li><li>Easy application,</li><li>Decorative effect,</li><li>Frost resistance,</li><li>Wide palette of colors,</li><li>Reduced tendency to crystallize.</li></ul>		
Physical properties of Siconofloor SL100-E			
Form	Component A modified colorful epoxy liquid		
	Component B amine curing agent		
Density (according to PN EN ISO 1675)	Component A	1.1~1.2 g/cm	
	Component B	0.89~1.05 g/cm³	
Suitability for use	40 minutes at 20°C		
Theoretical consumption of the blend	Minimum 2.0 kg/m² in case of using as a self-leveling compound		
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		
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 rotational speed. 20 RPM.	Component A	1150~1250 mPa*s	
	Component B	710~780mPa*s	
Mechanical properties of Siconofloor SL100-E			
Dust dryness		12 hours at 20°C	
ShA hardness (after 7 days)		100°	
ShA hardness (after 7 days)		80°	
Application			
Substrate preparation	The substrate must have sufficient compressive strength (minimum 25 N/mm²). The surface must be flat, slightly rough, dark and dry, cleaned of all contaminants. "Pull off" test should not give a result below 1.5 N/mm². If in doubt, make a reference area. Parts of the substrate with insufficient strength, cement slurry and fragments contaminated with oils or other anti-adhesive materials, must be removed mechanically, e.g., by means of grinding or milling. Before the material application, the substrate must have open pores. Immediately before the material application, the substrate must be dusted and vacuumed.		
Application conditions	Substrate temperature should be +5~30°C. Please note, that the lower the temperature, the longer the process of SICONOFLOOR SL100-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. SICONOFLOOR SL100-E material can be applied only on properly primed substrate. The freshly applied SICONFLOOR SL100-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 (3 minutes), 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.		
Casting coating - smooth system	Apply SICONOFLOOR SL100-E using a metal trowel equipped with a suitable detachment to regulate efficiency according to the art of painting, ensure that a uniform and continuous coating is obtained. The material must be		

<b>Conditions of the system components storage</b>	bleed with a spiked roller. SICONOFLOOR SL100-E resin is a material with a reduced tendency to crystallization process. Store it in a dry place at 5~30°C. Components A and 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.
<b>Comments and recommendations</b>	
<b>Health and safety conditions</b>	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 SL100-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, nor smoke in the workplace. Date of issue: 01/2016 All previously issued Siconofloor SL100-E safety data sheets shall expire on the date of issue of this sheet.