

## Technical Data Sheet

Product description	Colorful, two-component, polyurethane, low-viscosity resin with very high flexibility.		
Application	<ul style="list-style-type: none"><li>• The material is intended to cover cracks in the concrete substrate,</li><li>• The material is used as a flexible waterproof membrane,</li><li>• Can be used anywhere where high flexibility of the surface and the ability to cracks transfer are required.</li></ul>		
Properties	<ul style="list-style-type: none"><li>• Very high intercoat adhesion ,</li><li>• Ability of crack-bridging,</li><li>• Good mechanical parameters (high flexibility, tensile strength, bending strength),</li><li>• Waterproof,</li><li>• Low viscosity,</li><li>• Easy application,</li><li>• Application versatility,</li><li>• Frost resistance.</li></ul>		
Physical properties of Siconofloor ELASTAN			
Form	Component A modified polyol		
	Component B isocyanate hardener		
Density (according to PN EN ISO 1675)	Component A	1.05~1.2 g/cm <sup>3</sup>	
	Component B	0.99~1.15 g/cm <sup>3</sup>	
Suitability for use	35 minutes at 20°C		
Color and odor	Component A colorful and odorless		
	Component B liquid with a characteristic brown color		
Practical use of the blend	It strongly depends on its use, cracks depth		
Curing time	Light loads 24h at 25°C		
	Full load	7 days	
Viscosity (Brookfield DV-II). The test was conducted at 20°C using 04 spindle and 20 RPM rotational speed.	Component A	700~890 mPa*s	
	Component B	200~260mPa*s	
Mechanical properties of Siconofloor ELASTAN			
Dust dryness		12 hours at 20°C	
ShA hardness (after 7 days)		80°	
ShA hardness (after 7 days)		50°	
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 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 methods	<b>The material is designed exclusively for manual application.</b> First mix A component, then add B component, mix the components until a uniform consistency, but not for less than 3 minutes. After the initial mixing, the material is to be poured into a separate container and the mixing must be continued. The material must be mixed for other 2 minutes until a homogeneous blend. 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. No foreign substances such as solvents can be added to the resin. The mixed material should be applied on the crack to completely cover it. In case of flooding, remove the excess resin using a metal trowel to align the resin surface with the substrate surface.		
Conditions of the system components storage	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. At the cured state the resin is environmentally neutral. It is unacceptable to store components in open buckets.		
Comments and recommendations			
Health and safety conditions	Use personal protective equipment when working with resins. This equipment is precisely listed in the Material Safety Data Sheets of SICONOFLOOR ELASTAN material components available upon request. 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 ELASTAN. 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 allergav 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. It is unacceptable to leave buckets with resin in open containers.
<b>Final remarks</b>	<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 Elastan safety data sheets shall expire on the date of issue of this sheet.</p>