

**Product technical sheet:**

Description of the product	Universal resin preparation for priming. Perfect for making resin mortars and screeds. Filled, two-component epoxy resin. ECONOMICAL VERSION OF SICONOFLOOR GF-E RESIN.		
Application	<ul style="list-style-type: none"><li>• Material for indoor use as a priming layer,</li><li>• Priming concrete substrates, cement mortars, mortar and resin coatings,</li><li>• Binder for creating repair mortars, screeds and levelling putties,</li><li>• Protection of concrete against dusting and penetration of moisture,</li><li>• Reinforcement of all types of mineral substrates,</li><li>• Material for indoor and outdoor use.</li></ul>		
Properties	<ul style="list-style-type: none"><li>• High adhesion (above 1.5 MPa)</li><li>• No tendency to sedimentation (does not settle),</li><li>• No tendency to eyelet formation on a properly prepared substrate,</li><li>• Increases the adhesion of successive layers to the substrate,</li><li>• Good mechanical characteristics (hardness, tensile strength, bending strength),</li><li>• Provides hydrophobic properties,</li><li>• Ease of application,</li><li>• Versatility.</li><li>• Frost resistance,</li><li>• Reduced tendency to crystallise.</li><li>• Good price/quality ratio.</li></ul>		
Physical properties of Siconofloor G20-E			
Form	Component A modified epoxy liquid,		
	Component B, amine hardener		
Density (according to PN EN ISO 1675)	Component A	1.40~1.50 g/cm³	
	Component B	0.99~1.15 g/cm³	
Density (according to PN EN ISO 1675)	Component A+B	1.30~1.40 g/cm³	
Pot life	20-25 minutes at 20°C		
Theoretical mixture consumption	0.3~0.6 kg/m² when used as a priming resin		
Colour and odour	Component A white and odourless.		
	Component B transparent with a characteristic odour		
Practical mixture consumption	Strongly depends on the intended use, the quality of the substrate (absorptivity), the application technique, application conditions, and the degree of roughness. Average consumption 0.3~ 0.5 kg/m². Two layers of resin are recommended for porous substrates.		
Curing time	Light loads after 24 hours at 25°C		
	Full load capacity		7 days
Physical properties of Siconofloor G20 -E			
ShA hardness (after 7 days)		100°	
ShA hardness (after 7 days)		80°	
Application			
Preparation of the substrate	The substrate must have sufficient compressive strength (minimum 25 N/mm²). The surface must be level, slightly rough, strong and dry, and free from non-bound particles. The "pull off" test should not give a result of less than 1.5 N/mm². If in doubt, apply in a reference area. Fragments of understrength substrate, cement milk and fragments contaminated by oils or other separating agents must be removed mechanically, e.g. by shot blasting, grinding or milling. The substrate must have open pores before the material is applied. Before the material is applied, the substrate must be dusted and vacuumed.		
Priming conditions	The substrate temperature should be +5~30°C. Note that the lower the temperature, the longer it takes for SICONOFLOOR G20-E to cure. The ambient temperature should be +5~30°C. The moisture content of the substrate should be 5% maximum. The relative humidity of the air should be a maximum of 80%. The temperature of the substrate and the uncured flooring must always be 3°C higher than the dew point temperature. 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. Newly laid SICONOFLOOR G20-E must be protected from moisture and direct action of water for at least 24 hours after the application has finished. 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. z o.o Sp. K. If artificial heating is required, gas, oil, paraffin or other fossil fuel heaters should not be used. During operation of such equipment, large amounts of water and carbon dioxide are released as steam, which significantly interfere with the curing process of the resin. Only use electric heaters for heating.		
Application methods	Mix component A initially, then add component B, mix the ingredients until a homogeneous consistency is achieved, but not less than 3 minutes. Quartz sand may be added to the mixed components A and B of the resin if required,		

	mix for a further 2 minutes until a homogeneous mixture is obtained. The mixing ratios of component A and component B are indicated on the packaging and must not be changed. A change in the ratio will result in the product having characteristics different from those declared by the Producer. Excessive mixing may cause aeration of the resin and should therefore be avoided. Use a low speed electric mixer (300 to 400 rpm) or other suitable equipment to mix the resin.
<b>Priming layer</b>	Apply SICONOFLOOR G20-E using a brush or roller according to the art of painting, making sure that a uniform, continuous coating is obtained, if necessary apply a second layer.
<b>Levelling mortar</b>	Spread the SICONOFLOOR G20-E mortar to the desired thickness with a trowel or a chemical resistant rubber squeegee.
<b>Resin screed</b>	SICONOFLOOR G20-E should be spread, along with the appropriate aggregate, with the help of steel laths, preferably on rails. After a short time, compact the mortar and level it with trowels or a power trowel (20 ÷ 90 revolutions per minute) with blades covered with chemically resistant material. After finishing work, tools should be cleaned with acetone or xylene immediately after use. Hardened or bound material can only be removed mechanically.
<b>Storage conditions for kit components</b>	SICONOFLOOR G20-E resin is a material with a reduced tendency to crystallise. Store in a dry place at 5-30°C. Components A and B in the liquid state are water-polluting agents and should not enter sewage systems, soil or water courses. The resin after curing is neutral for the environment.
<b>Comments and recommendations</b>	
<b>Health and safety conditions</b>	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 on health, safety and environmental data, toxicological properties of the material, etc. is available in the Material Safety Data Sheet for Siconofloor G20-E. 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 hygiene reasons, do not consume food or drinks in the workplace and do not smoke.
<b>Final remarks</b>	These specifications are based on trials and laboratory tests. Practical results of measurements may differ from those provided, due to circumstances beyond the control of Sicon Sp. K. All information is given in good faith and takes into account current knowledge and experience. The producer indicates that the colour of the finished floor may vary. This phenomenon does not indicate a defect in the floor or reduced technical specifications. Possible discolouration may occur due to the way the work and drying are performed. It is recommended that particular areas be covered from batches of material from one production run. The product documentation is general information, appropriate under certain conditions. It is recommended that the purchaser 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 application, 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. Release Date: 02/2021 All previously issued sheets of the Siconofloor G20-E system shall expire on the date of issue of this sheet.