

SOLID AND DURABLE INDUSTRIAL FLOOR

Product technical sheet:

Description of the product	Universal resin preparation for concrete priming and impregnation. Perfect for making resin mortars and screeds.					
Application	Material for indoor use as a sealing layer,					
	 Priming concrete substrates, cement mortars, mortar and resin coatings, 					
	As a primer for epoxy and polyurethane systems,					
	Binder for creating repair mortars, screeds and levelling putties,					
	Protection of concrete against dusting and penetration of moisture,					
	Impregnation and reinforcement of all types of mineral substrates,					
Drevention	Material for indoor and outdoor use.					
Properties	 It is characterised by an extended pot life in relation to GF-E resin. Pot life ranges from 30-40 minutes for a temperature of 20°C. The specified time may vary depending on the temperature and conditions on the site. Very high adhesion, Increases the adhesion of successive layers to the substrate, Good mechanical characteristics (hardness, tensile strength, bending strength), Provides hydrophobic properties, Good penetration of mineral substrates, Low viscosity, Ease of application, Versatility. 					
	Frost resistance,					
	Reduced tendency to crystallise.					
		Physical properties of Siconofloor GF-E PREMIUM				
Form		Component A modified epoxy liquid				
		Component A		$1.05 \sim 1.2 \text{ g/cm}^3$		
Density (according to PN EN ISO 1675)		Component B		0.99~1.15	q/cm ³	
Pot life		10 minutes at 20°C				
Theoretical mixture consumption		0.3~0.6 kg/m ² when used as a priming resin				
Colour and odour		Component A coloured and odourless				
		Component B transparent with a characteristic odour				
Hygiene tests		Complies with requirements;				
Practical mixture consumption		technique, application conditions, and the degree of roughness. Average consumption 0.3~ 0.5 kg/m ² . Two layers of resin are recommended for porous substrates.				
		Light loads after 24 hours at 25°C				
Curing time		Full loa	d capacity	7 days		
Viscosity (according to Brookfield DV-II).		Component A		210, 220 mPa*c		
Test performed at 20°C using 04 spindle				510~520 HIF a 5		
and at 20 RPM.		Component B		100~110mPa*s		
Mechanical properties of Siconofloor GF-E PREMIUM						
Content of non-volatile	3251-2008)	ording to PN-EN ISO		105°C 97.91±1 %		
ShA h	ardness (after 7 da	vs) 100°		00°		
-	•		100		After 24h 55 ⁰ SHD	
ShD hardness (ShD hardness after 7		7 days 80 ShD)	10°		After 48h 80 ^o SHD	
		augo oo onby	20°		After 24h 70 ^o SHD	
		•	nligation		After 48h 80° SHD	
Preparation of the	The substrate m	ist have sufficient com	pressive strength (minimu	ım 25 N/mm	²) The surface must be level slightly	
substrate	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/mm ² . 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 ap					
Priming conditions	The substrate temperature should be +5~30°C (optimum temperature +10-29 °C). Note that the lower the					
	temperature, the longer it takes for SICONOFLOOR GF-E PREMIUM 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 sho				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					

Sicon Spółka z ograniczoną odpowiedzialnością Sp. k. 0000633637

TAX NUMBER: 517 027 17 17 REGON: 1180372420 KRS:

UI. Pod Borem 22B 36-060 Głogów Małopolska



SOLID AND DURABLE INDUSTRIAL FLOOR

SICONOFLOOR GF-E PREMIUM

	surfaces should be gently matted by sanding with fine sandpaper and then vacuuming the remaining dust. Newly laid SICONOFLOOR GF-E PREMIUM 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			
	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 (mixture ratio 100A:45B), 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.			
Priming layer	Apply SICONOFLOOR GF-E PREMIUM 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			
Levelling mortar	Spread the SICONOFLOOR GF-E PREMIUM mortar to the desired thickness with a trowel or a chemical resistant			
-	rubber squeegee.			
Resin screed	SICONOFLOOR GF-E PREMIUM should be spread, along with the appropriate aggregate, with the help of steel			
	revolutions, preferably on ralis. After a short time, compact the mortar and level it with trowers or a power trower (20 ÷ 90 revolutions, per minute), with blades, covered with chemically, resistant material. The proportions of the			
	SICONOFLOOR GF-E PREMIUM resin to the aggregate depend on the grain size of the aggregate, but the most			
	common is 10% of the resin mass for the aggregate. After finishing work, tools should be cleaned with acetone or			
	xylene immediately after use. Hardened or bound material can only be removed mechanically.			
Storage conditions	SICONOFLOOR GF-E PREMIUM resin is a material with a reduced tendency to crystallise. Store in a dry place at			
for kit components	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.				
Health and safety	Wear protective clothing, gloves and goggles whenever handling resin. When working in confined or enclosed			
conditions	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			
	GEE PREMILIM Do not allow contact with the skin. Avoid breathing vanours 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 tetrachioride! For nyglene reasons, do not consume tood or drinks in the workplace and do not			
Final remarks	These specifications are based on trials and laboratory tests. The practical results of measurements may differ from			
	those provided, due to circumstances beyond the control of Sicon. 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			
	appropriate under certain conditions. It is recommended that the pirchaser 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: 12/2020			
	All previously issued sheets of the Siconofloor GF-E PREMIUM system shall expire on the date of issue of this			
	sheet.			

Sicon Spółka z ograniczoną odpowiedzialnością Sp. k. 0000633637 TAX NUMBER: 517 027 17 17 REGON: 1180372420 KRS:

UI. Pod Borem 22B 36-060 Głogów Małopolska