

SOLID AND DURABLE INDUSTRIAL FLOOR

SICONOFLOOR GW-E

Technical Data Sheet

Product description	Universal resin preparation for concrete priming and impregnating. Dedicated as a primer on wet and difficult substrates. Colorless, two-component, solvent free, epoxy, low-viscosity resin.					
Use	Concrete substrates, cement mortars and resin coatings priming, As a primer for epoxy and polyurethane systems, Binder for preparing repair mortars, screeds and leveling putties, Protection of concrete against dusting and penetration of moisture, Impregnation and reinforcement of all types of mineral substrates, Possibility of wet substrate priming (max. surface humidity of the substrate 15%), Material for use inside and outside buildings.					
Properties	Very high adhesion to concrete substrate, Improves the adhesion of subsequent coatings to the substrate, Good mechanical parameters (hardness, tensile strength, bending strength), Ensures hydrophobic properties, Good penetration of mineral substrates, Low viscosity, Easy application, Application versatility, Frost resistance, Reduced tendency to crystallize. Physical properties of Siconofloor GW-E					
				-E		
Form		Component A modified epoxy liquid Component B amine curing agent				
Density (according to PN EN ISO 1675)		Component A		1.05~1.2 g/cm ³ 0.99~1.15 g/cm ³		
Suitability for use		Component B 30 minutes at 20°C		0.99~1.13	g/cm	
Theoretical consumption of the blend		0.3~0.6 kg/m² when used as a priming resin				
Color and odor		Component A slightly milky and odorless Component B yellowish liquid with a characteristic odor				
Hygiene tests		Meets the requirements; Hygienic Certificate No. HK/B/0757/01/2015				
Practical use of the blend		It strongly depends on the use, substrate quality (absorption), application technique, application conditions, roughness degree Average consumption 0.3~0.5 kg/m². In the case of porous substrates two coatings of resin are preferred.				
Curing time		Light loads 8h at 25°C				
Viscosity (Brookfield DV-II). The test was conducted at 20°C using 04 spindle and 20 RPM rotational speed.		Full load Component A		7 days 1090~1100 mPa*s		
		Component B		1990~2000mPa*s		
			erties of Siconofloor GV		onii a s	
Non-volatile content (according to PN-EN ISO 3251:2			80°C 97.91 ± 1 %			
ShA ha	ardness (after 7 d	lavs)	105°C 97.00 ± 1 %			
		,,	10°		after 24h 55° ShD	
ShD hardness (ShD hardness after		7 days, 82 ShD)	20°		after 48h 80° ShD after 24h 70° ShD	
			_		after 48h 80° ShD	
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. If in doubt, make a reference area. Parts of 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.					
Priming conditions	Substrate temperature should be +5~30°C. Please note, that the lower the temperature, the longer the process of SICONOFLOOR GW-E curing. Ambient temperature should be +5~30°C. Possibility of priming on wet substrate. Max. humidity on the substrate surface 15%. If case of leaving the primed surface for the subsequent coatings, for more than 48 hours interval, the primed surfaces should be slightly matted by sanding with fine sandpaper and then the remaining dust must be vacuumed. The freshly applied SICONFLOOR GW-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					

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	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. Quartz sand may be added to the mixed A and B components, if required, mix 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.
Priming coating	Apply SICONOFLOOR GW-E using a brush or a roller according to the art of painting, ensure that a uniform and
0.1/1	continuous coating is obtained. Apply a second coat if necessary.
Self-leveling mortar	Apply SICONOFLOOR GW-E mortar up to the desired thickness using a trowel or a chemical resistant rubber
Resin screed	squeegee. Spread SICONOFLOOR GW-E along with appropriate aggregate using battens of steel, best on guide rails. After a
Resili screed	short time, the mortar must be compacted and leveled with fingers or a mechanical float (20-90 rpm) with blades
	coated with chemical resistant material. The proportions of SICONOFLOOR GW-E resin to the aggregate depends
	on the aggregate grain size, but the most commonly 10% of resin weight of the aggregate is used. Wash tools with
	acetone or xylene immediately after use. Hardened or cured material can only be removed mechanically.
Conditions of the	SICONOFLOOR GW-E resin is a material with a reduced tendency to crystallization process. Store it in a dry place
system components	at +5~30°C. Components A an B in a liquid state are the agents causing water pollution and should not get into
storage	drains, soil and watercourses. After curing the resin is environmentally neutral.
	Comments and recommendations
Health and safety	Use protective clothing, gloves and goggles when working with resins. Adequate ventilation must be ensured when
conditions	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 GW-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	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.
	Date of issue: 01/2016
	All previously issued Siconofloor GW-E safety data sheets shall expire on the date of issue of this sheet.