

Technical sheet

Product description	It is a two-component, water-based epoxy resin that conducts electricity well	
Application	<ul style="list-style-type: none">As a conductive layer on primed substrates for electrically conductive epoxy and polyurethane flooring systems in Siconofloor ES + flooring systems.	
Properties	<ul style="list-style-type: none">Very high electrical conductivity,Increases the adhesion of subsequent layers to the substrate,Ease of useSolvent-free material, safe for the environment	
Physical properties of Siconofloor GW- ANS		
Character	Component A modified epoxy liquid	
	Component B amine hardener	
Working life	50-60 minutes for a temperature of 20°C	
Theoretical consumption of the mixture	0.10 kg/m² when used as a primer resin	
Colour and smell	Component A is a black liquid with a characteristic smell	
	Component B is a white liquid with a characteristic smell	
Hygiene tests	Meets requirements;	
Practical consumption of the mixture	Strongly depends on the intended use, substrate quality (absorptivity), application technique, application conditions, degree of roughness. Average consumption 0.08~0.12 kg/m².	
Curing time	8h light loads at 25°C	
	Full load capacity	7 days
Viscosity (according to Brookfield DV-II). The test was performed at 20 °C	Component A (SP06 / RPM20)	9400 mPa*s
	Component B (SP04 / RPM20)	2100 mPa*s
Electrostatic properties		
Typical average earthing resistance; R ≤10 ⁶ Ω according to IEC 61340-4-1		
Additional requirements		
Additionally, the product meets the requirements of the PN EN 13813:2002 standard		
Application		
Preparation of the substrate	The substrate must have sufficient compressive strength (minimum 25 N/mm²). The surface must be even, slightly rough, strong and dry, free from loose particles. If in doubt, a reference field should be made. Fragments of the substrate of insufficient strength, cement laitance and fragments contaminated with oils or other separating substances must be removed mechanically, e.g. by shot peening, grinding or milling. The substrate must have open pores before the material is applied. Immediately before application of the material, dust and particulate matter should be removed from the substrate. Too rough surfaces require levelling, e.g. with a resin screed based on Siconofloor B50-E. The unevenness of the substrate may cause the thickness of the Siconofloor ANS COND layer to vary, which will have a direct impact on the conductive properties of the entire floor.	
Application conditions	The temperature of the substrate should be +5~30°C. It should be remembered that the lower the temperature, the longer the curing process of SICONOFLOOR GW-AN S. Ambient temperature should be +5~30°C. The Siconofloor GW-AN S material should be applied on a previously prepared and primed substrate. Freshly applied SICONOFLOOR GW-AN S must be protected against moisture and direct exposure to water for at least 24 hours from the completion of application. During this time, contact with water may cause blooms or surface viscosity.	
Application methods	Pre-mix component A, then add component B, mix the components until a homogeneous consistency is obtained, but not less than 3 minutes. The mixing ratio of Component A and Component B is shown on the packaging and must not be changed. Changing the proportions will result in a product with properties different from those declared by the Manufacturer. Mixing for too long may cause air entrainment and should therefore be avoided. To mix the resin, use a low speed electric stirrer (300 ~ 400 rpm) or other equipment designed for this.	
Priming layer	Apply SICONOFLOOR GW-ANS with a brush or roller in accordance using a painting technique, ensuring that a uniform, continuous coating is obtained, if necessary, apply a second layer.	
Storage conditions for kit components	The SICONOFLOOR GW-ANS resin is a material with a reduced tendency to undergo the crystallization process. It should be stored in a dry place at a temperature of 5~30°C. Component A and B in liquid state are water polluting agents and should not get into the sewage system, ground or water courses. After hardening, the emulsion is neutral for the environment.	
Comments and recommendations		
Health and safety conditions	During all work with resins, use protective clothing, gloves and glasses. Adequate ventilation must be provided when working in confined or closed rooms, and during drying. When working, do not weld and do not come close to open fire sources. Use lighting lamps with appropriate safety measures. Detailed information on health, safety, as well as data on ecological, toxicological properties of the material, etc. are available in the Material Safety Data Sheet for	

	<p>SICONOFLOOR GW- ANS. Avoid contact with skin. Avoid breathing vapours from heated material. Do not allow individual components to come into contact with acids, strong oxidants, bases. All employees should be thoroughly trained in the handling of epoxy resins and hardeners with regard to the existing hazards. Allergy sufferers must not be commissioned to work with resins. If there is a risk of splashing the resin, use protective gloves and goggles. After each contact of the resin with the skin, wash with water with the addition of mild cleaning agents, do not use benzene, toluene or carbon tetrachloride! For hygiene reasons, you should not eat or drink in the workplace, and also not smoke there.</p>
Concluding remarks	<p>The technical data provided is based on laboratory trials and tests. Practical measurement results may differ from the attached ones, due to circumstances over which Sicon Sp. z o.o. Sp.K. has no control. All information is given in good faith and takes into account the current state of knowledge and experience.</p> <p>The manufacturer informs that the colour of the finished floor may vary. This phenomenon does not indicate a defect of the floor or reduced technical parameters. Possible discolouration may appear because of the way in which work and drying take place. It is recommended to cover specific surfaces with batches of materials from one production batch. The product documentation provides general information that is appropriate under certain conditions.</p> <p>Prior to large-scale use of the product, it is recommended that the purchaser perform an application test under the specific environmental conditions of the construction site. The floor in these fields should be assessed and approved by the investor/principal. The supplier has no influence on the types of applications, methods of application and conditions of implementation occurring on a construction site, therefore, these instructions cannot result in his responsibility for the final result of the application. Recommendations of Sicon's associates that deviate from the information contained in the technical sheet, are binding only if confirmed in writing.</p> <p>Date of issue: 01/2017</p> <p>All sheets for the Siconofloor GW-AN S system issued so far shall expire on the day of the issuing of this sheet.</p>