Technical sheet

Product description	Pigmented, two-component, solvent-free, pourable epoxy resin with low viscosity and antistatic properties. It is a resin used to make smooth gloss floors.
Application	• Material for use inside buildings in places where the floor is required to be electrostatically conductive.
Properties	• Quick discharge of charges, • Very high adhesion, • High degree of gloss, • Self-levelling resin, • Good abrasion resistance, • Good mechanical parameters, • Provides hydrophobic properties, • Low viscosity, • Ease of application, • Decorative effect, • Frost resistance, • A wide range of colours despite the content of a conductive filler, which may cause a slight deviation from the standard colours in the case of light colours • Reduced tendency to crystallize.

Physical properties of Siconofloor ANS COND		
Character	Component A modified coloured epoxy liquid	
	Component B amine hardener	
Working life	30 minutes for a temperature of 20°C	
Theoretical consumption of the mixture	Minimum 2.0 kg/m^2 when used as a self-levelling screed	
Colour and smell	Component A is coloured and odourless	
	Component B is transparent and with a characteristic smell	
Hygiene tests	Meets the requirements;	
Curing time	24h light loads at 25°C	
	Full load capacity	7 days
Viscosity (according to Brookfield DV-II). The test was carried out at 19°C using a 04 spindle and a rotational speed of 20 RPM.	Component A	7150 mPa*s
	Component B	710~780 mPa*s

Electrostatic properties	
Typical average earthing resistance; *10^5 <R<1*10'° 0 conforming to IEC 61340-4-1	
Additional requirements	
Additionally, the product meets the requirements of the PN EN 13813:2002 standard	
Mechanical properties of Siconofloor ANS COND	
Dust dryness	12 hours at 20°C
ShA hardness (after 7 days)	100°
ShD 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 even, slightly rough, strong and dry, free from loose particles. The “pull off” test should not give a result below 1.5 N/mm². 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. Unevenness of the substrate may cause variations in the thickness of the Siconofloor ANS COND layer, 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 ANS COND. Ambient temperature should be +5~30°C. Substrate humidity should be max 5%. Relative air humidity should be a maximum of 80%. The temperature of the substrate and uncured flooring must always be 3°C above the dew point temperature. The SICONOFLOOR ANS COND material may be applied only to a properly primed substrate. Freshly applied SICONOFLOOR ANS COND must be protected against moisture and direct exposure to water for at least 24 hours from the completion of application. The formation of laitance discolouration on the surface indicates contact of fresh material with moisture resulting in divergence in the properties of the final product from the properties declared by SICON Sp.K . Sp. z o.o. If artificial heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. During the operation of such devices, large amounts of water and carbon dioxide in the form of water vapour are released, which significantly disturb the hardening process of the resin. Use only electric heaters for heating.
Application methods	Pre-mix component A (3 minutes), 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.
Poured layer - smooth system	After components A and B are mixed, the material should be poured in portions on a primed concrete substrate and spread evenly with a spacer squeegee. The resin consumption depends on the thickness of the floor - usually it is about 1.5-2.0 kg/m^2. Exceeding the maximum consumption (2.0 kg/m^2) can lead to reduced conductivity. After pouring, the material should be deaerated with a spiked roller. After the last coat has been applied, keep the drying temperature above + 15°C for at least 18 hours.
Storage conditions for kit components	The SICONOFLOOR ANS COND 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 resin 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 SICONOFLOOR ANS COND. 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.
Concluding remarks	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. The manufacturer informs that due to the addition of a conductive filler in the case of white floors, the colour of the finished floor may show slight differences compared to the colour chart. 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. 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 flooring 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. Date of issue: 01/2017 All sheets for the Siconofloor ANS COND system issued so far shall expire on the day of the issuing of this sheet.

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