

Thick-layer epoxy-quartz floor with anti-electrostatic properties.

System description	SICONOFLOOR DECO COLOR COMPACT ES+ is an anti-electrostatic thick-layer epoxy flooring system based on				
	transparent epoxy resins and mechanically	trowelled coloured quartz sand with	n a special filler. It is characterized by		
	very good conductive properties as well as very high mechanical resistance and good chemical resistance. It is a				
	durable finish for mineral surfaces such as concrete or cement screeds. It effectively prevents the formation of				
	electric charges and prevents dusting of the substrate and protects it against soaking with liquids or mechanical				
Scope of application	SICONOELOOP EPOXY ES Lis used to	make yery durable surface law	ore in rooms with a risk of alastric		
Scope of application	SICONOFLOOR EPOXY ES + is used to make very durable surface layers in rooms with a risk of electric				
	Diaryes, e.y. Diarts and warehouses for fuels, cases, solvents, ducting materials				
	 Frants and waterouses for fuels, gases, solvents, dusting materials, Elemmetrical numbing stations 				
	Frammable material pumping stations, Dowder and wet paint shops				
	 Powder and wet paint snops, Electronics production halls, where electrostatic floors ensure effective protection of the manufactured devices. 				
	 Electronics production nails, where electrostatic noors ensure elective protection of the manufactured devices of production lines and the products manufactured on them 				
	 Laboratories, operating rooms. 				
	 Research and diagnostic stations operated by means of electronic measuring and control-diagnostic devices. 				
	 Server rooms for telecommunications devices, 				
	Computer control systems rooms.				
System Properties	Ability to discharge electrostatic charges,				
	Anti-slip properties in the range from R9 to R12,				
	High scratch and impact resistance,				
	High chemical resistance,				
	Ease of cleaning and maintenance,				
	Decorative appearance,				
0	 Thickness of whole system: 2.5-3.0 m 	m.			
System structure and	application data:				
	Due duete feu melvine	de en levere			
	Products for making	g noor layers	Approximate consumption		
Primer	Siconofloor GF-E/ lub GW-E		0.3 kg/m2		
Conductive primer	Copper tape		2 mb/m2		
with copper tape					
	Siconofloor GW ANS		0.10 kg/m^2		
			00g,		
Distance	ESD quartz sand 1.0-1.6 mm		0.5 kg/m2		
Construction lavor	Siconofloor B50 E ESD mixed with delemit	to flour and MIX ESD quartz	0.0 kg/m 2 (oppyy rosin) = 0.65		
Construction layer	SICONORIO BOU-E ESD MIXED WITH DOROMITE HOUR AND MIX ESD QUARTZ		ka/m^2 (flour) 1.0 ka/m ² (cond mix)		
	aggregate 0.8-1.2 mm		kg/m2 (nour) 1.0 kg/m2 (sand mix)		
Dool/fill with oggrogoto			2.0.2.5kg/m2		
backnii with aggregate	MIX ESD quartz aggregate 0.8-1.2 mm		3.0 – 3.5kg/m2		
Lacquer	Siconofloor Toplack ESD		0.15 kg/m2		
			5		
	Technical properties of	SICONOFLOOR EPOXY ES+			
Adhesion		> 2.0) N/mm ²		
ShD hardness			>90		
		C.U 7A>			
	Curing time (at temp. of 20°C):	quirements,		
Podestrian traffic					
Full load	Fedesulari italii 24 n Full load 7 davs				
Electrostatic properties					
Typical average earthing resistance; 1*10 ⁵ ≤R≤1*10 ¹⁰ Ω conforming to IEC 61340-4-1					
	Additional	requirements			
Additionally, the product meets the requirements of the PN EN 13813:2002					
	Application				

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NIP: 517 027 17 17 REGON: 1180372420 KRS: 0000633637

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Preparation of the substrate Preparation of materials Installation of earthing points	The concrete substrate should be strong, dry (with a humidity of up to 4%, and in the case of a humidity of 5-15%, it is recommended to use Siconofloor GW-E priming resin), clean, slightly rough, with open pores, and made in accordance with construction standards. All contaminants such as cement laitance, dust, oil contamination, traces of grease, loose, unbound or poorly bound fragments and old coatings should be removed. The average tensile strength of the concrete, measured using the "pull-off" method , should not be less than 1.5 MPa. Mature concrete must be sanded. The required maturation times for concrete, cement screeds and repair materials must be observed. 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 DECO COLOR COMPACT ES+ layer to vary, which will have a direct impact on the conductive properties of the entire floor. The individual materials included in the SICONOFLOOR DECO COLOR COMPACT ESD should be prepared for application in accordance with the data contained in their Product Data Sheets. Before making the layer for discharge of electrical charges from Siconofloor GW ANS, the electrodes for discharging electrical charges should be connected to the earthing electrode. The electrode should have a dimension of 1.5 m. The tape should be connected to the earthing electrode. The electrode should have a galvanic connection to the mesh made of copper tapes. The earthing connection can also be made by directing a section of copper tape to earth using crimp terminals. The distance between two earthing points must not exceed 10 m. The mounting places should be carefully cleaned. If the distance between the earthing points exceeds 10 m, additional earthing should be performed by a person with appropriate qualifications and authorizations in accordance with a copper tape. This operation should be performed by a person with appropriate qualifications and authorizations in accordance with app			
Number of earthing places	At least two per room. The number of points discharging loads from the floor should be specified in the technical documentation			
Application conditions for SICONOFLOOR DECO COLOR COMPACT ESD				
The substrate temperature must be min. 3°C higher than the dew point temperature.				
Minimum ambient tempe	erature	+10°C		
Minimum substrate temp	perature	+10°C		
Maximum relative humic	dity	+23 C 80%		
Application method	The concrete substrate should be prime	ed in accordance with the instructions contained in the Product Data Sheet		
and consumption -	of the Siconofloor GF-E/GW-E. Too roug	gh surfaces need to be levelled with Siconofloor B 50-E. Unevenness of the		
smooth system	substrate may cause the thickness of the Siconofloor DECO COLOR COMPACT ESD layer to vary, which will have a direct impact on the conductive properties of the floor. Then make a conductive base layer on the previously primed surface and spread the copper tapes. The copper tape is pressed down firmly with a rubber squeegee or similar tool. The earthing coatings sprinkled with quartz sand should be planed at the point of gluing with a grinding wheel before sticking the conductive tape. Conductive tapes are connected to the copper face and then connected to the circulating wire or directly to the earthing connection. Work related to the orientation of the circulating wire and the connection of the copper tape should only be performed by qualified electrotechnical personnel, then prime the conductive resin Siconofloor GW-ANS and backfill with 1.0-1.6 mm ESD quartz aggregate. The Siconofloor B50-E ESD material should be prepared in accordance with the instructions contained in the Product Data Sheet. After mixing components A and B, mix the material with fire-dried ESD quartz sand, fraction 0.8+1.2 mm, and dolomite flour, and then pour the prepared mixture in portions on the primed concrete substrate and spread evenly with a metal trowel. Then, the still uncured material layer should be "dry" covered with fire-dried, colored quartz sand (so-called MIX ESD) with granulation 0.8+1.2 mm. After a short time, level the mortar with a trowel or a mechanical power trowel (20-90 rpm) with blades coated with chemically resistant material. Leave the layer to harden for at least 12 hours (at a temperature of + 20°C). Closing layer - prepared in accordance with the Technical Data Sheet of the Siconofloor Toplack E ESD material. The material should be poured in portions on a cured and prepared resin layer with quartz sprinkles. The theoretical consumption of resin is 0.15 kg/m2. After the last coat has been applied, keep the drying temperature above +15°C for at least 18 hours.			
Health and safety	Materials included in the system should be	be used by trained construction teams		
conditions	During the works, use equipment protecting the eves, respiratory system and skin. Adequate ventilation must be			
	provided when working in confined spaces and during drying. Detailed information on hazards is contained in the			
	Material Safety Data Sheets of individual	products, available on request.		
System component	Once fully cured, fl	ne coating is neutral to health and the environment.		
storage conditions	Uncured products and their components should not be allowed to get into the sewage system, soil or groundwater. Remains of materials must absolutely harden. Hardened material remains must be disposed of in accordance with applicable regulations			
Technical Support	Before using the system, it is recommended to consult the Manufacturer's technical advisor to ensure that the			
	material and/or system are correctly use	d.		
Concluding remarks	The technical data provided is based on laboratory trials and tests. Siconofloor DECO COLOR COMPACT ES+ is			
	not suitable for surfaces permanently exposed to water. Practical measurement results may differ from the attached			
	account the current state of knowledge	and experience. The manufacturer informs that the colour of the finished		

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floor may show slight differences. 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. It is recommended to analyse the antistatic
parameters of the floor for each applied layer (conductivity check at each stage of the construction, not only a final
check of the finished system). It is recommended that the earthing mesh made of copper tape be set up by an
employee with appropriate permissions. 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: 01/2019
All sheets for the Siconofloor DECO COLOR COMPACT ES+ system issued so far shall expire on the day of the
issuing of this sheet.

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