

PRODUCT DATA SHEET

Sikafloor®-220 W Conductive

2-part, electrostatic conductive epoxy primer

DESCRIPTION

Sikafloor®-220 W Conductive is a two part, water dispersed, epoxy resin with a high electrostatic conductivity. Sikafloor®-220 W Conductive is a part of different systems. For more details please refer to the System Data Sheet mentioned under the paragraph SYSTEM INFORMATION.

USES

Sikafloor®-220 W Conductive may only be used by experienced professionals.

Sikafloor®-220 W Conductive shall be used by professional applicators only.

- Sikafloor®-220 W Conductive must be applied as conductive primer underneath all Sikafloor® conductive wearing courses, such as Sikafloor®-262 AS N, 262 AS N Thixo, -235 ESD, -269 ECF CR, -381 ECF and -390 ECF.
- Electrostatic conductive coatings on concrete and cementitious screeds for different types of industrial use.

CHARACTERISTICS / ADVANTAGES

- Highly electrostatic conductive
- Easy application
- Economical in use

PRODUCT INFORMATION

Chemical Base	Waterborne epoxy	
Packaging	Part A	4,98 kg containers
	Part B	1,02 kg containers
	Part A + B	6 kg unipacks
Shelf Life	12 months from date of production.	
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged.	

aged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Part A and part B must be protected from frost.

Appearance / Colour	Resin - part A	black, liquid	
	Hardener - part B	white, liquid	
Density	Part A	1,15 kg/l	(DIN EN ISO 2811-1)
	Part B	1,06 kg/l	
	Mixed Resin	1,04 kg/l	
All density values at +23 °C.			
Solid content by weight	~44 %		
Solid content by volume	~34 %		

TECHNICAL INFORMATION

Electrostatic Behaviour	Typical average resistance to ground: $R_g \leq 10^4 \Omega$	(DIN EN 1081)
* Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.		

SYSTEM INFORMATION

Systems	Sikafloor®-220 W Conductive is a part of the following systems. For detailed info please refer to the System Data Sheets of:	
	Sikafloor® Multidur ET-14 ECF	Textured, unicolour conductive epoxy roller coat
	Sikafloor® Multidur ES-24 ECF	Smooth, unicolour conductive epoxy floor covering
	Sikafloor® Multidur ES-43 ESD	Smooth, unicolour conductive epoxy floor covering with ESD roller coating
	Sikafloor® MultFlex PS-32 ECF	Smooth, unicolour conductive polyurethane floor covering
	Sikafloor® Multidur ES-25 ESD	Smooth, unicolour ESD epoxy floor covering
	Sikafloor® Multidur ET-25 ESD	Textured, unicolour ESD epoxy floor covering
	Sikafloor® Multidur ES-28 ECF/EQ	Smooth, ultra-low VOC, clean room certified conductive epoxy floor covering
	Sikafloor® Multidur ES-31 ECF	Smooth, chemically resistant conductive epoxy floor covering
	Sikafloor® Multidur ES-31 ECF/V	Smooth, chemically resistant conductive epoxy floor covering for vertical areas
	Sikafloor® Multidur EB-31 ECF	Broadcast, unicolour conductive epoxy floor covering, high chemical resistant, and slip resistant
	Sikafloor® Multidur ES-39 ECF	Smooth, tough-elastic, chemically resistant conductive epoxy floor covering
	Sikafloor® Multidur ES-39 ECF/V	Smooth, tough-elastic, chemically resistant conductive epoxy floor covering for vertical areas
	Sikafloor® Multidur EB-39 ECF	Broadcast, tough-elastic, unicolour conductive epoxy floor covering with, high chemical resistant

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 83 : 17 (by weight)		
Consumption	~0,08–0,10 kg/m ² These figures are theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. For detailed info, please refer to the system related System Data Sheets.		
Ambient Air Temperature	+10 °C min. / +30 °C max.		
Relative Air Humidity	75 % r.h. max.		
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.		
Substrate Temperature	+10 °C min. / +30 °C max.		
Substrate Moisture Content	< 4 % moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	Temperatures	Time	
	+10 °C	~120 minutes	
	+20 °C	~90 minutes	
	+30 °C	~30 minutes	
Curing Time	Before overcoating Sikafloor®-220 W Conductive allow:		
	Substrate temperature	Minimum	Maximum
	+10 °C	26 hours	7 days
	+20 °C	17 hours	5 days
	+30 °C	12 hours	4 days
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Substrate quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

LIMITATIONS

- This product may only be used by experienced professionals.
- Do not apply Sikafloor®-220 W Conductive on substrates with rising moisture.
- Apply Sikafloor®-220 W Conductive only on primed or levelled up concrete and screed surfaces.
- Do not blind the primer.
- Freshly applied Sikafloor®-220 W Conductive should be protected from damp, condensation and water for at least 24 hours.
- Only start application of Sikafloor® conductive primer after the primer has dried tack-free all over. Otherwise there is a risk of wrinkling and impairing of the conductive properties.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking - reducing or breaking conductivity.
- After the curing of Sikafloor®-220 W Conductive and before application of the subsequent conductive wearing courses, the testing to measure the conductivity of Sikafloor®-220 W Conductive, is mandatory. All readings must be below 10⁴ Ohms. Measuring equipment: Resistance to ground: Insulation Tester

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020811010010000006

Metriso 2000 from Warmbier or comparable. Surface resistance probe: Carbon Rubber electrode. Weight: 2,50 kg ($\pm 0,25$ kg); Diameter: 65 mm (± 5 mm); Rubber pad hardness: Shore A 60 (± 10).

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type wb) is 140 g/l (Limits 2010) for the ready to use product. The maximum content of Sikafloor®-220 W Conductive < 140 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

EQUIPMENT

Mixing Tools

Sikafloor®-220 W Conductive must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1,5 N/mm².

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt apply a test area first. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimize air entrainment.

APPLICATION

Application of Sikafloor® conductive primer:

Uniformly spread 1 × Sikafloor®-220 W Conductive using a short pile nylon roller (12 mm).

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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