

Sikafloor® 220 W Conductive

Water based conductive coat underneath
antistatic Sikafloor coatings

Product description:

Sikafloor 220 W Conductive is a solvent-free, 2-component epoxy resin coating of high electrostatic conductivity.

Solvent-free according to recommendation **DEUTSCHE BAUCHEMIE** EV.

Fields of application:

Sikafloor 220 W Conductive must be applied as conductive intermediate layer underneath all conductive Sikafloor coatings, such as Sikafloor 7530 AS, 262 AS, 381 AS and 390 AS. For electrostatically conductive coatings on concrete and cement screed for normal and medium industrial wear.

Properties:

- **electrostatically highly conductive**
- **end of potlife visible**
- **low material consumption**
- **easy to apply**
- **environmentally safe.**

Colours shade:

Black

Packaging:

10 kg

Shelf life:

In original sealed containers in cool and dry environment: approx. 1 year.

Product data.

Coating system/ material consumption:

Coating system	Product	Material consumption
Priming	1x Sikafloor 156	0,3 - 0,5 kg/m ²
Levelling up	Sikafloor 156 mortar	depending on pattern depth (see TDS of Sikafloor 156)
Electrodes	Sikafloor copper tape or electrode-set	see application method
Conductive coat	1x Sikafloor 220 W Conductive	approx. 0,08 - 0,1 kg/m ²
Wearing layer	Sikafloor 7530 AS Sikafloor 262 AS Sikafloor 381 AS Sikafloor 390 AS	approx. 0,6 kg/m ² approx. 2,6 kg/m ² approx. 3,0 kg/m ² approx. 2,5 kg/m ² (see resp. system- data-sheet)

Mixing ratio:

Sikafloor 220 W Conductive: 83 pbw comp. A
17 pbw comp. B



REG. NR. 39116
Sika Chemie GmbH



CONSTRUCTION

Technical data:

Type	Testing standard	final curing	mean value
specific gravity	DIN 53 217	–	approx. 1,04 kg/ltr
volume solids	Calculated	–	approx. 40%
electric resistance R _E	DIN 1340-4-1	–	10 ³ - 10 ⁴ Ohm

Application Details:**Substrate condition:**

Apply Sikafloor 220 W Conductive only on primed or levelled up concrete and screed surfaces.

For priming/levelling up with Sikafloor 156 see technical data sheet.

Surface preparation:

Priming/levelling coat must be cleaned thoroughly. In cases where the maximum permissible waiting time between priming/levelling up and Sikafloor 220 W Conductive has been exceeded, the surface must be roughened mechanically, e.g. by grinding, before application of the conductive coat. **DO NOT blind primer coat with quartz sand because this may disrupt the subsequent conductive coat.**

Mixing recommendation:

Prior to mixing stir component A thoroughly by mechanical means, and stir up component B with a spatula.

Mix components A+B intensively with an electric drill (approx. 300-400 rpm) in the right mixing proportion.

Minimum mixing time is 3 minutes to achieve a homogeneous consistency. Fill mixed material into another clean container and stir again shortly.

Application methods:A) Placing of electrodes:

Copper electrodes are fixed (e.g. by Sikafloor copper tape) to the edges of the primed respectively levelled up and cleaned floor surface at distances of not more than 10 m, penetrating into the floor approx. 20-30 cm, running vertically up the walls.

Depending on local conditions and to ensure proper electric conductivity, the following is recommended:

From the end of a plastic-insulated strand wire (approx. 4 mm²) the insulation is removed for about 30 cm, the individual wires are fanned out and fixed with a self-adhesive copper tape to the floor extending approx. 20-30 cm.

The free ends of the copper tape (or strand wire) are drawn up the walls and connected with a ring main or directly to a suitable earth connection. The installation of the ring main or the connection of the copper tapes to the earth connection cable should be carried out by a professional.

B) Placing of Electrode Set:

If the Electrode Set is used, the instructions for use have to be followed accordingly. By using this system, the copper strips become superfluous. Each spot is able to conduct 100 m². Make sure, the longest distance is max. 10 m. For longer distances, additional copper strips are to be placed. Clean the electrodes carefully. The electrodes are connected to the ring-mains. This work should be executed by an Electrician.

Numbers of Earth Electrodes:

Areas of the size of approx. 100 m² must be earthed separately. The optimum earth connections depend on the local conditions and should be specified by using a drawing.

Application of Sikafloor 220 W Conductive:

Sikafloor 220 W Conductive is to be applied evenly by brush or roller. Trial tests of the conductivity are strongly recommended.

Attention: Only start application of Sikafloor 220 W Conductive after the priming coat has dried tack-free all over. Otherwise there is a risk of wrinkling or impairing of the conductive properties.

In case of a higher material consumption than 0,10 kg/m² the adhesion will decrease considerably and conductivity may be impaired.

In cases where the Sikafloor 156 priming coat is older than 3 days, the substrate must be ground before application. Never blind Sikafloor 220 W Conductive with sand.

Ambient and substrate temperature:

Minimum + 10°C (but at least + 3°C above the dew point)

Maximum + 30°C

Relative air humidity max. 75%.

Application time:

	+ 10°C	+ 20°C	+ 30°C
Sikafloor 220 W Conductive	2 - 2,5 hours	1,5 - 2 hours	0,5 - 1 hour

Waiting times between coats:

Sikafloor 220 W Conductive	+ 10°C	+ 20°C	+ 30°C
min.	approx. 24 hours	approx. 15 hours	approx. 10 hours
max.	7 days	5 days	4 days

Final curing:

Sikafloor 220 W Conductive	+ 10°C	+ 20°C	+ 30°C
ready for foot traffic	approx. 20 hours	approx. 13 hours	approx. 8 hours

Cleaning of implements:

Clean application tools after use with soap water in order to remove remnants of resin and rinse again with clean water.

Precautionary measures:

Products in a liquid or uncured state may contaminate groundwater and should be prevented from entering drains or water courses.

Empty containers may contain hazardous residues. Product remnants should be removed and disposed of in accordance with local regulations.

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