

ADINGSTATIC

Static conductive three-component epoxy flooring, with resistivity between 5×10^4 and $1 \times 10^6 \Omega$

Field of application:

For structures where static conductive floor is obligatory as a measure for controlling the static electricity: production facilities for electronic equipment, hospital operating theatres, electronic laboratories, computer centres, manufacturing plants and warehouses for paints, varnishes and solvents, plants for manufacturing fabrics and fibres etc.

Properties:

- Successfully conducts static electricity;
- Smooth finished surface;
- Excellent adhesion to various kinds of substrates;
- High abrasion resistance;
- Monolithic property - jointless floor lining;
- Bacteriologically resistant;
- Decorativeness - possibility for execution in a number of shades;
- Easy maintenance;
- Good resistance to diluted acids, solutions of salts and mineral oils;

Technical features:

Mixing ratio:	A:B:C = 4:1,04:4,6
Specific resistivity:	5×10^4 to $1 \times 10^6 \Omega$
Bond strength	> 5 MPa
Wear after Bohme:	4,1 gr/50 cm ³
Temperature in service:	-20°C to 70°C
Compressive strength:	> 60 MPa

	20°C	30°C
Open workability time	1 hour	45 min.
Curing/drying period	3,5 hours	2,5 hours
Initial hardness	24 hours	20 hours
Fully hardened	7 days	5 days

Substrate preparation:

The substrate should be sound, dry, clean, cleaned of dust and grease. The substrate should obligatorily be waterproofed, in order to prevent separation of the epoxy coating from the substrate, as a consequence of a negative water uplift pressure.

New concrete substrate

Concrete should have matured for minimum 28 days, be of minimum compressive strength 25 MPa and not to contain moisture higher than 5,0%.

Residues of mortar, stains of paint and oil (if present on the substrate), should be removed. If there is cement slurry on the surface, it should be mechanically removed. Finally the substrate should be cleaned of dust by means of industrial vacuum cleaner.

Old concrete substrate

Sound and clean substrate are the main preconditions for achieving excellent bond. Removal of cement slurry is performed mechanically. Penetrated greases and impurities into the substrate should be removed with detergent or special agents for that purpose. All damages to the substrate should be repaired by using appropriate materials.

Application:

Copper strips are set up (glued) upon the concrete substrate so that to form a grid 0,50 x 0,50 m, while the endings of the strips are connected with the earthing. A precoat (primer) Adingpoks-1P, Adingpoks-1P ECO or Adingpoks-1PV is first applied upon the substrate. The application of the primer is carried out uniformly with a hard brush. The primer should be allowed to partially set, in accordance with the table below, prior to passing on the application of Adingstatic. In cases of more porous substrates a need may arise for double application of precoat.

20°C	8 - 12 hours
30°C	6 - 8 hours
40°C	4 - 8 hours

Copper strips are set up (glued) upon the prepared concrete substrate so that to form a grid 0,50 x 0,50 m, while the endings of the strips are connected with the grounding.

Working joints are filled with epoxy sealant Adingpoks-K. The component B is completely poured into the tin with the component A so that the two components are mixed by means of an electric slow mixer (300 to 500 revolutions/min) until reaching complete homogeneity. Then, component C is gradually added, along with permanent mixing the material. The quantity of the material which is being mixed should be in compliance with the open workability time for work. The application of material is carried out by means of serrated skimmers in a thickness of 3 mm.

The applied material is treated with barbed rollers in order to release the air "trapped" into the material. The temperature of substrate during application is 10°C to 30°C.

Maintenance:

The longevity of flooring depends on proper maintenance of the floor. The floor treated with ANTISTATIC can usually be cleaned with machines having rotational soft brushes, with detergents that are dissolved in water or with warm water up to 50°C.

Consumption:

ADINGPOKS-1P : 0,3-0,4 kg/m²
COPPER STRIP: 0,1 kg/m²
ADINGSTATIC: 4,5-5,0 kg/m²

Cleaning:

The tools and equipment are cleaned with Solvent-P, immediately after use.

Packing:

Sets of 9,5 kg.

Storage:

In original closed packing, in dry premises, at a temperature from 10°C to 30°C, protected against direct exposure to sun. Shelf life 12 months.

Standard colors:

Green RAL 6010 and grey RAL 7042.

Note:

The above mentioned colors are approximate. Possible are minor deviations from RAL colors owing to technological reasons, which do not affect the quality of material. It is also possible to produce other colors, upon specific request of the customer.

Health hazard:

It is necessary to avoid contact of the product with skin and eyes, as well as direct inhalation during mixing the components A and B. In case of accidental contact, the product should immediately be removed with a dry towel or mildly wetted towel with Solvent-P, and then the spot should be well washed with pure water and soap. If the material has been splashed into eyes, they should immediately be rinsed with pure water and medical assistance should be asked for.

It is necessary to provide ventilation of the premises where work with resins and solvents is performed.

Fire:

Adingpoks-P, Adingstatic and Solvent-P contain flammable solvents. They should not be used in the vicinity of open fire or smoking during placement.

Cleaning and discarding:

Loose residues of Adingpoks-P and Adingstatic are cleaned with Solvent-P. The old and used packing should be discarded in accordance with the local relevant regulations for that kind of waste.

We recommend for the way of application and necessary quantities to be adjusted to the works condition, as well as obligatory use of appropriate equipment.