

ADINGSTATIK 1

*Two-component epoxy coating electrostatically conductive with a resistance value $<10^6\Omega$
In compliance with EN 1504-2, method 5.1(C)*

FIELD OF APPLICATION

Electrostatic and chemical resistant epoxy coating used for rooms where static electricity is generated, for the purpose of grounding electricity. Resistant in conditions of high chemical aggression. It is used in production halls for electronic equipment, computer centers, laboratories, operating rooms, electronic laboratories, production plants and warehouses for paints, varnishes and solvents, chemical corrosive materials, production plants and warehouses for explosive and easily flammable materials, etc.

PROPERTIES

- Excellent adhesion to the substrate,
- Waterproof,
- Impervious to water.
- Contains no solvents,
- Simple to apply,
- High chemical resistance,
- Resistant to oil and oil derivatives,
- Bacteriologically resistant,
- Non- toxic when cured,
- Easy to maintain;

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		Coloured viscous liquid
Mixing ratio	-	A:B = 3,6:1,0
Density	EN ISO 2811-1	A = 1,3-1,4g/cm ³ B = 0,97-1,03g/cm ³
Adhesion to the substrate	EN 1541	≥ 2MPa
Water absorbtion	EN 1062-3	w≤0,1kg/m ² h ^{1/2}
Abrasion resistance	EN ISO 5470-1	<3000mg
Impact resistance	EN ISO 6272-1	Class II ≥10Nm
UV stability	-	unstable
Pot life at 20°C (A+B)	EN ISO 9514	45 - 70 min
Setting time on 25°C	-	6 - 7 h
Period between application of two layers, on 25°C	-	24 h
Substrate and air temperature during application	-	10-30 C°
Mechanical use for light traffic, on 20°C	-	after 3 days
Mechemical use for heavy traffic, on 20°C	-	after 7 days
Chemical exposure(including water contact), on 20°C	-	after 14 days
Stability of the coating during the exploitation	-	from -20 to +60 C°
Antistatic behaviour	EN 1081	Class I: >10 ⁴ and <10 ⁶ Ω

METHOD STATEMENT

SUBSTRATE PREPARATION

The substrate for application must be sound, dry, clean, free of dust, grease and condensate. For industrial flooring it must be waterproofed, in order to prevent separation of the final coating as a consequence of negative hydrostatic pressure. The moisture of the substrate must be lower than 7%, the temperature during the application between 10-30°C and the relative air humidity must be lower than 70%, to prevent condensation on the substrate for application. The application on substrate with water condensate can result with unequal change of the coating color, lose the gloss or show spotting. Despite these negative effects the physical and chemical characteristics of the coating would not change.

New concrete substrate

Concrete must be cured at least 28 days, the compressive strength must be over 25 MPa and the structural substrate moisture must be less than 7%. Cement laitance, mortar, stains of paint and grease must be removed. Finally the substrate should be cleaned of dust using industrial vacuum cleaner.

Old concrete substrate

In order to achieve an excellent adhesion to the substrate, it must be sound and clean. The cement laitance should be removed mechanically. Penetrated grease and dirt into the substrate should be removed using detergents or special agents. All cracks and damages of the substrate must be repaired using suitable materials.

Old epoxy substrate

The surface should be treated with sandpaper and it must be clean of dust using industrial vacuum cleaner.

APPLICATION

The substrate to be treated must be pre-coated with Adingpoks 1P or Adingpoks 1PV. After application of the primer, on the substrate should be placed (glued) copper strips in the form of a frame along the ends of the field and transversely along the length in several directions, and the ends of the copper strips are connected to the ground.

After placing the copper strips, black conductive primer Adingstatik SP should be applied.

Mix A and B component of Adingstatik 1 separately 3-4 minutes using slow mixer (up to 300-500 rotations/minute). Then add B component into A with mixing ratio A:B = 3,6:1 and mix until it homogenize. The application of the epoxy coating must be applied during the pot life of the product. Apply Adingstatik 1 manually with a fur roller. The temperature of the substrate must be between 10-30°C and the relative air humidity must be lower than 70%.

CONSUMPTION

Adingpoks 1P / Adingpoks 1PV: 0.15 – 0.25 kg/m²

Adingstatik SP: 0.10 – 0.12 kg/m²

Adingstatik 1 (A+B) for one layer: 0.20-0.30 kg/m²

Adingstatik 1 (A+B) for two layers: 0.40-0.50 kg/m²

CLEANING

Clean tools and equipment right after the application, using Solvent P.

PACKAGING

Sets A+B: 18.4 kg

A component: 14.4 kg

B component: 4.0 kg


STORAGE

In the original, closed packaging, placed in dry rooms at temperature between 10°C and 30°C. The product must not be exposed to direct sunlight and freezing. Shelf life: 9 months.

STANDARD COLOURS

Adingstatik 1 Gray,,
Adingstatik 1 Green,
Adingstatik 1 Blue.

CE MARKING

 2032	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 23 GDFH0XX/3 EN 1504-2:2004 ADINGSTATIK 1 Electrically conductive epoxy coating with $<10^6\Omega$ resistance	
Adhesion strength by pull-off test	$\geq 2,0 \text{ N/mm}^2$
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Abrasion resistance	$< 3000 \text{ mg}$
Impact resistance	Class II $\geq 10 \text{ Nm}$ After loading, no cracks, no delamination
Antistatic behavior	Class I $< 10^6\Omega$
Reaction to fire	Class F
Dangerous substances	No performance determined

Health hazards: Avoid contact of the product with skin and eyes, as well as direct inhalation when you mix the components. In case of accidental contact, the product should be removed immediately with dry towel or mildly wetted towel with Solvent P. Then, wash the spot with pure water and soap. If the material has been splashed into eyes, immediately rinse it with pure water and call for medical help. Ventilate the room where you use resins and solvents.

Fire: The product is flammable.

Cleaning and disposal: Loose residues of Adingstatik 1 are cleaned with Solvent P. The old and used packing should be discarded in accordance with the local relevant regulations. We recommend that the method of application and the necessary quantities should be adjusted to the conditions on site, as well as mandatory use of appropriate equipment. Additional information is provided in the Product Safety Data Sheet.