

ADINGSTATIK 2

Self leveling two-component electrostatically conductive epoxy system with resistance value $<10^6\Omega$

In compliance with EN 13813 SR B2.0 – AR0.5 – IR4

FIELD OF APPLICATION

Electrostatically conductive self leveling epoxy system 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

- Electrically conductive,
- Excellent adhesion to the substrate,
- Waterproof,
- Impervious to water.
- Easy to apply,
- Chemical resistance,
- Bacteriologically resistant,
- Non- toxic when cured,
- Easy to maintain;

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance		Coloured viscous liquid
Mixing ratio	-	A:B = 3,2:1,0
Density	EN ISO 2811-1	A = 1,25-1,31g/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 h½
Abrasion resistance (BCA)	EN 13892-4	Class AR 0,5(<50µm)
Impact resistance	EN ISO 6272-1	Class II ≥20Nm
Bond strength	EN 13892-8	Class B,2(>2N/mm ²)
UV stability	-	unstable
Pot life at 20°C (A+B)	EN ISO 9514	40 - 60 min
Substrate and air temperature during application	-	10-30 C°
Mechanical use for light traffic, on 20°C	-	after 3 days
Mechanical 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°
Electrostatically conductive	IEC 61340-4-1	RE <1*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 unequally 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 2 separately 3-4 minutes using slow mixer (up to 300-500 rotations/minute). Then add B component into A with mixing ratio A:B = 3,2:1 and mix until it homogenize. The application of the epoxy coating must be applied during the pot life of the product.

Apply the material using notched trowel and process the applied layer using bristle roller to remove the entrapped air off the epoxy (due to the nature of the material, a roller with metal needle tips is recommended). 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 2 (A+B): 1.80 - 2.00 kg/m²

CLEANING

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

PACKAGING

Sets A+B: 16.8 kg

A component: 12.8 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 2 Gray,,
Adingstatik 2 Green,
Adingstatik 2 Blue.

CE MARKING

CE	
ADING AD Skopje, Novoselski pat (ul 1409) br.11 1060 Skopje, North Macedonia 22 GDFIXXX/3 EN 13813:2002 SR B2.0-AR0.5-IR4 ADINGSTATIK 2 Self-leveling electrically conductive epoxy system with < 10 ⁶ Ω resistance	
Reaction to fire	No performance determined
Dangerous substances	SR
Capillary absorption and permeability to water	No performance determined
Water vapour permeability	No performance determined
Adhesion strength	B2.0
Impact resistance	IR4
Abrasion resistance according to BCA	AR0.5
Sound isolation	No performance determined
Sound absorption	No performance determined
Thermal resistance	No performance determined
Chemical resistance	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 not flammable.

Cleaning and disposal: Loose residues of Adingstatik 2 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.