

Technical Data Sheet



AB-ZEROPOX® 848 AS

2-C-EP-antistatic textured coating



Description:

2-component textured epoxy coating with electrostatic conductivity, coloured
very low emission

Characteristics:

- electrostatically conductive
DIN EN 1081; DIN EN 61340-4-1
- easy to clean
- thixotropic
- very high chemical resistance
- very high mechanical resistance
- high abrasion resistance
- inert and harmless once cured

Application:

AB-ZEROPOX 848 AS is a very low emission, textured, electrostatically conductive industrial floor coating for production plants, sales areas and warehouses. **AB-ZEROPOX 848 AS** is designed for use in storage and production facilities; also in areas where there is risk of explosion, due in the main to its high chemical and mechanical resistance, and obviously its conductivity.

Average value of electrical resistance R_E : textured surface $10^4 - 10^6 \Omega$.

AB-ZEROPOX 848 AS is applied in conjunction with the intermediate conductive coating **AB-ZEROPOX 860 LS** onto compatible **AB-ZEROPOX** - primers / key coats and is suitable for offices, laboratories and other indoor projects with high requirements to room climate.

AB-ZEROPOX 848 AS meets the strictest criteria regarding the lowest emissions of indoor air pollutants.

Consumption:

0.6 - 0.8 kg/m², depending on colour (coverage).

Resistant to:

- water / sewage
- washing agents / detergents
- saline solutions
- wet temperature max. 40°C
- solvents (please consult us)
- diluted acids and alkalis
- lubricants and fuels
- wet temperature short-term max. 60°C

Technical Data:

Mixing ratio A : B	100 : 16.6 by weight (6 : 1)
Density (23°C)	approx. 1.65 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	thixotropic
Compressive strength (DIN EN ISO 604)	> 60 N/mm ²
Shore D - hardness (DIN EN ISO 868)	approx. 80
Tensile strength (DIN EN ISO 178)	45 N/mm ²

Details for application:

Pot life (12°C / 23°C / 30°C)	approx. 60 minutes / 40 minutes / 20 minutes
Substrate temperature	minimum 12°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 12°C: 75 % (dew point +3°C) at > 23°C: 85 % (dew point +3°C)
Curing time / foot traffic (12°C / 23°C / 30°C)	48 hours / 24 hours / 20 hours
Curing time / mech. resistance (12°C / 23°C / 30°C)	96 hours / 72 hours / 48 hours
Curing time / chem. resistance (12°C / 23°C / 30°C)	8 days / 6 days / 4 days
All above values are approximate and may be used as a guideline for specifications	

Packaging:

30 kg - pails

Colour:

pebble grey approx. RAL 7032 (other colours are available on request)
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage:

12 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C.
At temperatures < 10°C crystallisation is possible. Please consult us.

1. Surface preparation

Prior to the application the substrate must be prepared by mechanical means using qualified equipment e.g. Blastrac® shot blasting.

Minimum requirements:

- free of cement laitance, dust, oil, fat and other contaminants
- open textured, absorbent surface
- pull off strength min. 1.5 N/mm²
- concrete residual moisture max. 4 %

Depending on the condition of the substrate the surface must be made non-porous by the application of a primer and / or key coat using **AB-ZEROPOX 803**.

On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, AB-ZEROPOX 810 must be used.

Please consult us!

As **AB-ZEROPOX 860 LS** is a conductive intermediate coat it must be applied evenly. Prior to the application of **AB-ZEROPOX 860 LS**, the connection to earth must be installed using spliced copper cable, and controlled in accordance with its function and adhesion.

See also "general preparation and application instructions" sheet.

2. Application

Prior to mixing, the temperature of the components must be between 15 - 25°C. Mix the components in the correct ratio using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes or until a completely homogeneous mixture has been achieved. Put the mixed material into a clean container and mix again for at least 1 minute more. **Do not add any fillers, because they will impair the conductivity.** Distribute the mixture immediately onto the surface. To apply use a fine notched trowel (rubber or metal, e.g. tooth blade A3). Spread **AB-ZEROPOX 848 AS** as an even coat ensuring uniform thickness. The applied coating must receive a coarse foam roller in order to achieve an integral and textured surface / finish. Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

3. System description

The following figures are for ambient and surface temperatures of 15 - 23°C. Both high and low temperatures will influence the filler ratio and the consumption per m².

Primer:

AB-ZEROPOX 803, clear

Consumption: approx. 0.3 - 0.5 kg/m², lightly sprinkle with clean, dry quartz sand Ø 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Key coat:

AB-ZEROPOX 803 + quartz sand

Consumption: approx. 0.6 kg/m² resin plus quartz sand, no quartz sand to be sprinkled on the surface.

Connection to earth:

Must be installed and controlled by a qualified electrician (within a radius of approx. 10 m).

Conductive coating:

AB-ZEROPOX 860 LS, black

Consumption: 0.1 - max. 0.13 kg/m².

Textured coating:

AB-ZEROPOX 848 AS, pebble grey

Consumption: 0.6 - 0.8 kg/m².

N/B

Should flooring renovation take place or a subsequent coating be applied, there will be no conductivity properties. Please consult us.

N/B:

UV radiation cause discolouration.

4. Cleaning

To clean the surface (manual or by machine) use only neutral or slightly alkaline (pH < 10) cleaning agents without preservation additives that will create a film. We highly recommend that you contact a specialist cleaning contractor.

5. Chemical resistance

Depending on the requirements we recommend to test the chemical resistance.

6. Packaging

30 kg - sets

25.73 kg component A

4.27 kg component B

7. Health and safety

GISCODE: RE30

Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

8. EU Directive ("Decopaint-RL"):

Acc. to the EU Directive 2004/42/EG the maximum allowed content of VOC (Product category All / j / type SB) is 500 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

AB-ZEROPOX 848 AS; 2.01/17.03.20. Before use, please check that this is the actual edition of the Technical Data Sheet. The information contained in this Technical Data Sheet is of a general nature and is provided in good faith and we accept no liability for errors or omissions. Because use and application of this product are out of our control and depend, concerning substrate, load and method of application, on the particularities of the individual case, our advice, verbal, written or based on tests, does not exempt the applicator from testing the suitability of the products for the intended use.

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