

AB-ZEROPOX<sup>®</sup> ESD

# ESD FLOOR COATINGS

very low emission and durable safe



# Very low emission floor coatings

New standards in safety and climate protection

With the development of our AB-ZEROPOX® and AB-ZEROPUR® coating systems we are breaking new ground in making floor coatings safer for processors and users. **We are the only manufacturer in Germany to offer you a wide range of coating systems that are very low in emissions through and through: From the primer to the topcoat!**



## 6 reasons for AB-ZERO

### ➤ MORE SECURE

With our coating materials, processors and users alike benefit from a measurably improved indoor climate. No health-endangering emissions, no unpleasant odours – strong arguments for our PREMIUM floor coatings.

### ➤ MORE INNOVATIVE

There is always room for improvement: This attitude has spurred us on to develop very low emission coating materials in accordance with EMICODE® EC 1<sup>Plus</sup> – without compromise, from primer to coating to topcoat. This makes us currently the only supplier on the market.

### ➤ MORE VERSATILE

Recreation rooms, offices, production/warehouse halls or workshops – the areas of application for these quality systems are as versatile as the products themselves. Whether sound absorbing, crack-bridging, non-slip, particularly robust, antistatic or electrostatically dissipative – for all requirements we have a solution.

### ➤ MORE SUSTAINABLE

Our products are inspired by nature. The castor oil plant – also known as palm of christ – provides us with vegetable raw materials for the AB-ZEROPUR® floor coatings. Therefore these products are based up to 80 % on natural and renewable raw materials.

### ➤ MORE DURABLE

No compromises in quality and durability: As you know from our conventional products, also our AB-ZEROPOX® and AB-ZEROPUR® systems are extremely durable, reliable and robust. Satisfied customers worldwide confirm the outstanding quality.

### ➤ MORE VALUABLE

What is the health of your customers and processors worth to you? The use of very low emission coating systems is an important step towards more health, safety and sustainability in all areas of life and work. A good investment!



## ESD FLOOR COATINGS

Protection for electronic components

Where electrostatic discharges pose a high risk for people and products, offer the AB-ZEROPOX® ESD systems permanent protection at the highest level. The standard-compliant ESD floor from ABP Coatings conducts voltages reliably over the sub-soil and thus ensures the protection of electronic components against electrostatic phenomena (discharge). Ideal for use in areas where sensitive components are manufactured or installed, such as the electronics industry, aviation, telecommunications or information technology.

AIRBUS, Bremen 4.200 m²



## SUSTAINABLE AND ECONOMICAL

On course for your success with innovations!

More than 900,000 m² of EPA's have been installed since 2002, nationally and internationally, with the quality leading AB-POX® 460 ESD industrial floor coating system. Durable and without failures, even at a relative humidity of 12 ± 3 % and on heated screeds!

The increasing awareness of building owners for environmental issues and the constantly growing requirements by industry and users, lead to the development of innovative, very low emission ESD coating materials, which even meet the high requirements for cleanrooms. This was possible due to our volume-conductive polymer technology.



Endress & Hauser, Nesselwang 3.400 m²

## EMICODE®

Facilitates planning



“Where nothing is inside, nothing can come out!”

The AB-ZEROPOX® ESD-systems offer not only the end user, but also the applicator respectively specialist a significant added value, due to the fact that during processing a considerably lower odour exposure occurs and also a subsequent outgassing of emissions can almost be eliminated.

ABP Coatings is the first manufacturer and provider of ESD systems, where all system components are licensed in accordance with **EMICODE® EC 1<sup>PLUS</sup>**.

The **EMICODE®** label provides building owners, architects, planners and craftsmen with a means of orientation as to which products offer the greatest possible safety from indoor air pollution and guarantee maximum health protection and high environmental compatibility.

This is why the **EMICODE®** offers maximum safety and is a leading certification system:

- fulfils requirements for „green building“
- basis for building certifications (LEED, DGNB, BREEAM)
- most demanding requirements for VOC emissions
- carcinogenic and mutagenic substances are not allowed
- applies to a wide range of construction products
- internationally established and recognized
- the only label with random external monitoring of real samples from the market

## GUARANTEES YOUR ADVANTAGE

This floor meets the highest demands!

- budget and load-oriented system variants
- complies with DIN EN 61340 (4-1 and 5-1)
  - Walking Test
  - System resistance human-shoe-floor
  - Resistance to earth
  - Discharge
- complies with EOS/ESD - STM 97.1/97.2
- suitable on heated screed/concrete
- salt-free and free of ionically conductive liquids
- volume conductive
- no additional care
- good cleanability
- robust and resilient
- hygienically jointless
- tough and hard
- physiologically harmless

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## VERSATILE USE

in industry and research

### Examples of use

- Storage and production areas
- Research and development rooms
- Cleanrooms

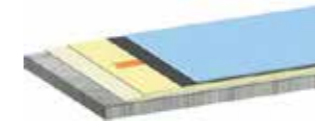
### Request

ESD self-levelling coating for cementitious substrates for medium-heavy mechanical load.

### System description

- 2-C-EP primer and levelling coat  
**AB-ZEROPOX® 801 / 803 / 810**
- 2-C-EP conductive coating  
**AB-ZEROPOX® 860 LS**
- 2-C-EP-ESD self-levelling coating  
**AB-ZEROPOX® 846 ESD**
- optional  
2-C-EP-ESD textured topcoat  
**AB-ZEROPOX® 883 ESD**

System layer thickness:  
approx. 3 mm



**Long-lasting functionality:** Volume conductive ESD system, which does not contain any ionically conductive liquids or salts and thus provides a durable functionality guaranteed.



Marquardt, Weihai 18.500 m²

## RELIABLE PROTECTION

in workshops and warehouses

### Examples of use

- Workshops
- Storage and production areas
- Technical rooms

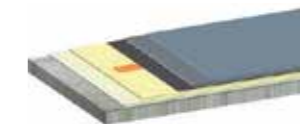
### Request

ESD textured coating for cementitious substrates for medium mechanical load.

### System description

- 2-C-EP primer and levelling coat  
**AB-ZEROPOX® 801 / 803 / 810**
- 2-C-EP conductive coating  
**AB-ZEROPOX® 860 LS**
- 2-C-EP-ESD basecoat  
**AB-ZEROPOX® 848 ESD** - silk gloss  
or **AB-ZEROPOX® 849 ESD** - glossy
- 2-C-EP-ESD textured coating  
**AB-ZEROPOX® 848 ESD** - silk gloss  
or **AB-ZEROPOX® 849 ESD** - glossy

System layer thickness:  
approx. 1,5–2 mm



**Long-lasting functionality:** Volume conductive ESD system, which does not contain any ionically conductive liquids or salts and thus provides a durable functionality guaranteed.



SMA, Niestetal 63.000 m²

### VALID STANDARDS AND SPECIFICATIONS/ REQUIREMENTS FOR ESD SYSTEMS THAT MUST BE FULFILLED PERMANENTLY!

<b>Walking Test</b> DIN EN 61340-5-1, EOS/ESD-STM 97.2	< 100 Volt (12 ± 3 % relative air humidity)
<b>System Resistance Human, shoe, floor</b> DIN EN 61340-5-1; EOS/ESD-STM 97.1 and 97.2	< 1 x 10 <sup>9</sup> Ω
<b>Resistance to earth</b> DIN EN 61340-4-1	< 1 x 10 <sup>9</sup> Ω

Explanation: 10<sup>9</sup> Ω = 1.000 MΩ

Our systems reliably fulfil all specifications of DIN EN 61340, including the function for 12 ± 3 % relative humidity.



# ABP ADDED VALUE

- The ABP brand stands for innovative and safe flooring systems, especially in commercial construction and the industrial production.
- ABP offers intelligent product solutions, first-class quality and a high level of innovation.
- Personal support, comprehensive consulting and perfect service are the basis for the ABP ADDED VALUE.
- As a medium-sized family business, ABP Coatings stands for highest reliability, flexibility and continuity.



## References

### ESD FLOORS

AIRBUS  
ATLAS ELEKTRONIK  
Baker Hughes  
BMW AG  
Carl Zeiss Jena GmbH  
Continental AG  
Daimler AG  
HESSE Mechatronics  
Hilti AG  
KEB-Automation KG  
Marquardt GmbH  
Microsonic GmbH  
NORD Electronic GmbH  
Robert Bosch GmbH  
Siemens AG  
SMA Solar Technology AG  
Volkswagen AG

### SEALINGS

Aquarium Wilhelmshaven  
IKEA Hannover  
Defecator Wilhelmshaven  
MTRC Tunnel Hong Kong  
Parc 66 Jinan  
PHAENO Wolfsburg  
University Hong Kong

### CORROSION PROTECTION

BARD Offshore I  
Lighthouse Hohe Weg  
Nord-West Oelleitung GmbH  
Schluchseewerk AG  
TIWAG Tyrol Hydropower



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