

ESD GESCHÜTZTER BEREICH  
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AB-POLYMERCHEMIE GmbH  
Quality and Competence

# ESD protection without a headache!



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## On course for your success with innovations!

More than 800.000 m<sup>2</sup> of EPA's have been carried out since 2002, nationally and internationally, with the quality leading AB-POX<sup>®</sup> 460 ESD industrial floor coating systems. Durable and without failures, even with the standard relative humidity of **12 ± 3 %** and on heated screeds!

The increasing awareness of building owners for environmental issues and the constantly growing requirements of industry and users have led to the development of innovative ESD coating materials with a VOC content < 1 %, based on our volume-conductive polymer technology, which has been proven since 2002. Even the high requirements for cleanrooms can be met.

### „If there's nothing in it“, nothing can come out! **AB-ZEROPOX<sup>®</sup> ESD**

The **AB-ZEROPOX<sup>®</sup>** systems offer a considerable added value not only to the end user, but also to the user or specialist processor as a significantly lower odour pollution occurs during processing and a subsequent outgassing of emissions can be almost excluded.

AB-Polymerchemie GmbH is thus also the first manufacturer and supplier of ESD systems that are completely benzyl alcohol-free and have a consistent VOC content of less than 1 %.



### Your advantage guaranteed



- budget and load-oriented system variants
- complies with DIN EN 61340 (4-1 and 5-1 supplement 1) walking test / system resistance / discharge / static decay
- complies with EOS/ESD - STM 97.1 / 97.2
- suitable for heated screeds / floor constructions
- salt-free and free of ionic conductive liquids
- VOC < 1 %, meets AgBB already during the installation phase!  
(Committee for Health-related Evaluation of Building Products)
- no additional care → easy to clean

**The** quality in the field of industrial floor coatings. All requirements of DIN EN 61340 are reliably fulfilled, including the function at **12 ± 3 %** relative humidity.





**Valid standards and specifications / requirements for ESD systems that must be permanently fulfilled!**

|   |  |
|---|--|
| <b>Walking test</b><br>DIN EN 61340-5-1 supplement 1, EOS/ESD-STM 97.2                      | < 100 Volt ( <b>12 ± 3%</b> relative humidity) |
| <b>System resistance</b><br>DIN EN 61340-5-1 supplement 1; EOS/ESD-STM 97.1 and 97.2        | < 1 × 10 <sup>9</sup> Ω                        |
| <b>Discharge value</b><br>DIN EN 61340-4-1  | < 1 × 10 <sup>9</sup> Ω                        |
| <b>Static decay of a voltage from 1000 Volt to 50 Volt</b><br>DIN EN 61340-5-1 supplement 1 | < 2.0 seconds                                  |

### Fields of application



- storage and production areas
- R & D / laboratory rooms

### Requirement

#### ESD self-levelling coating for cement based substrates

- fulfills ESD standards at a relative humidity of  $12 \pm 3 \%$
- free of benzyl alcohol and nonyl phenol
- VOC < 1 %, fulfills AgBB standards
- for medium mechanical load
- hygienic - seamless / jointless
- easy to clean
- inert and harmless once cured

Durable functionality:  
Volume-conductive ESD system, which does not contain ionic conductive liquids or salts.

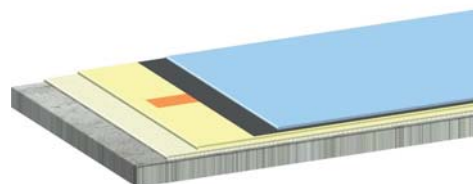
### System solution

2-C-EP-primer and levelling layer  
**AB-ZEROPOX® 801 / 803 / 805 / 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 thickness approx. 3 mm



- workshops
- storage and production areas

#### ESD textured coating for cement based substrates

- fulfills ESD standards at a relative humidity of  $12 \pm 3 \%$
- free of benzyl alcohol and nonyl phenol
- VOC < 1 %, fulfills AgBB standards
- for medium mechanical load
- hygienic - seamless / jointless
- easy to clean
- inert and harmless once cured

Durable functionality:  
Volume-conductive ESD system, which does not contain ionic conductive liquids or salts.

2-C-EP-primer and levelling layer  
**AB-ZEROPOX® 801 / 803 / 805 / 810**

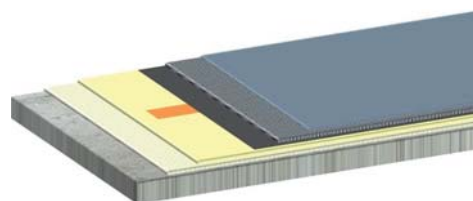
2-C-EP-conductive coating  
**AB-ZEROPOX® 860 LS**

2-C-EP-ESD basecoat  
**AB-ZEROPOX® 848 ESD** - silk gloss  
resp.

**AB-ZEROPOX® 849 ESD** - gloss

2-C-EP-ESD textured coating  
**AB-ZEROPOX® 848 ESD** - silk gloss  
resp.

**AB-ZEROPOX® 849 ESD** - gloss



system thickness approx. 1.5 - 2 mm

## Fields of application



- cleanroom technology
- storage and production areas

## Requirement

### ESD cleanroom coating for cement based substrates

- fulfills ESD standards at a relative humidity of  $12 \pm 3\%$
- free of benzyl alcohol and nonyl phenol
- VOC < 1 %, fulfills AgBB standards
- for medium mechanical load
- hygienic - seamless / jointless
- easy to clean
- inert and harmless once cured

#### Durable functionality:

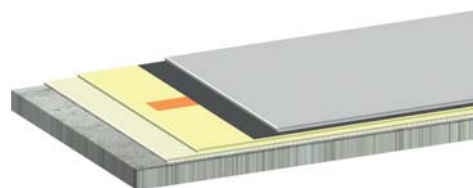
Volume-conductive ESD system, which does not contain ionic conductive liquids or salts.

## System solution

2-C-EP-primer and levelling layer  
**AB-ZEROPOX® 801 / 803 / 805 / 810**

2-C-EP-conductive coating  
**AB-ZEROPOX® 860 LS**

2-C-EP-ESD coating  
**AB-ZEROPOX® 846 ESD-Z**



system thickness approx. 3 - 3.3 mm



- storage and production areas
- R & D / laboratory rooms

#### Reference system

Successfully installed without failure in industry on more than 800.000 m<sup>2</sup> since 2002.

### AB-POX® 460 ESD - system for cement based substrates

- fulfills ESD standards at a relative humidity of  $12 \pm 3\%$
- free of nonyl phenol and softeners
- for medium mechanical load
- hygienic - seamless / jointless
- easy to clean
- inert and harmless once cured

#### Durable functionality:

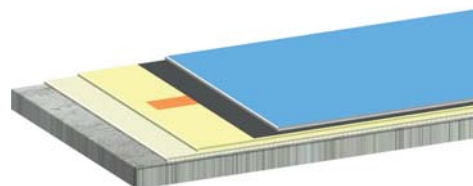
Volume-conductive ESD system, which does not contain ionic conductive liquids or salts.

2-C-EP-primer and levelling layer  
**AB-POX® 002 / 010**

2-C-EP-conductive coating  
**AB-ZEROPOX® 860 LS**

2-C-EP-ESD coating  
**AB-POX® 460 ESD**

optional  
2-C-EP-ESD textured topcoat  
**AB-POX® 483 ESD**



system thickness approx. 2.5 - 3 mm



# References are our advertising



AB-POLYMERCHEMIE GmbH  
Quality and Competence



## Industrial flooring

Audi AG  
BMW AG  
Carl Zeiss Jena GmbH  
Continental AG  
Daimler AG  
Fire brigade Uslar  
Hilti AG  
Marquardt GmbH  
Robert Bosch GmbH  
Siemens AG  
SMA Solar Technology AG  
Volkswagen AG



## Waterproofing

Aquarium Wilhelmshaven  
IKEA Hannover  
Sewage plant 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-Tiroler Wasserkraft AG

Top-quality products are achieved only by a highly motivated and qualified team, innovative research and development as well as a consistent production technology. Our industrial floor coatings, spray elastomers and the innovative corrosion protection coatings are based on these conditions. The epoxy and polyurethane resin, polyurea and acrylics based products of ABP-Coatings represent our Quality and Competence "Made in Germany". Along with a fair and open-minded business policy we guarantee customer satisfaction.



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