

# OBJECT INSIGHT

INSIGHT INTO VERY SPECIAL OBJECTS

INDUSTRY AUTOMOTIVE, GARAGES, CAR PARKS AGRICULTURE FOODSTUFFS HEALTHCARE OFFICES, PUBLIC FACILITIES EXTERNAL SURFACES SPECIAL SOLUTIONS



*Flooring to fulfil ESD requirements*



# The Object

inpotron  
Schaltzeteile GmbH  
78247 Hilzingen, GERMANY

Category: Manufacturing hall  
Area size: 2,000 m<sup>2</sup>  
Completion: June 2022

Floor covering:  
ESD-conductive flooring with  
low VOC values and water  
vapour permeability

Area type:  
Production facilities for  
electronic components

Requirements:  
Reliable electrostatic dis-  
charge capability combined  
with permeability and ease  
of cleaning

Colour:  
approx. RAL 7035



## Insight: ESD-conductive flooring

In electronics production facilities, the sudden discharge of static electricity onto components is a risk. A floor covering must therefore reliably dissipate these electrostatic charges and protect circuit boards or microchips.



Reliable ESD discharge capability to protect people and products.



Easy cleaning of the homogeneous and light-coloured surface.

# *ESD conductivity for protecting electronic components*

## *INDUSTRY / CONDUCTIVE FLOORS (ESD)*

In company Inpotron's manufacturing area, the flooring meets the usual ESD requirements of DIN EN 61340-5-1. Even small electrostatic discharges can damage the conductor paths of microelectronic components. Protection against such is therefore of utmost importance. An ESD-dissipative floor covering guarantees such damage-free production with high quality standards.

The diffusible system also allows moisture to be transported upwards from the heated concrete slab: in line with this requirement, the products used are suitable for water vapour-permeable build-ups. They are all low-emission and meet the AgBB requirements for recreation rooms.

Our universal **EP 724 E Haftgrund Super** is applied as a primer. It ensures excellent adhesion to a wide range of substrates. The subsequent trowelling coat **EP 782 E**

**Spachtelgrund** levels the substrate and creates the basis for a pore-closed surface. A cross-conductible base layer is applied using **EP 799 Ableitgrund**. The copper tape **KLB-Kupferband** attached underneath seals the entire system to the building's earthing and dissipates electrostatic potentials.

Within the build-up, this is followed by a self-levelling coating made of **EP 785 EL+** as well as a final matt sealer **PU 813 EL+/ESD** in approx. RAL 7035. The even surface is highly abrasion-resistant and offers good cleanability to quickly remove particles of dirt or dust.

With our cleaning recommendation "Electrically/ESD-conductive commercial and industrial flooring", the technical properties and optical appearance of a flooring system can be retained.

### *Attention: differing system build-up!*



The object shown has a special build-up. The installation technique and product composition for this flooring was developed and implemented by our customer. The tested and proven KLB systems provide a reliable basis for many such out-of-the-ordinary applications. For special circumstances or if you have individual design requirements, you can also optionally supplement or adapt our systems with other products from our high-quality portfolio. KLB consultants will be happy to answer any technical questions you may have. You can find KLB systems recommended by us on our website at:



[www.klb-koetzal.de/en/systemfinder](http://www.klb-koetzal.de/en/systemfinder)



Scan the QR code on your smart phone or open the following link to get to the digital version:  
[www.klb-koetzal.de/en/references/industry/inpotron-conductive-floor-coating/](http://www.klb-koetzal.de/en/references/industry/inpotron-conductive-floor-coating/)

# The systematic approach to great flooring.

You can find more systems and references on our website:

**System Finder**  
A customised floor system for your project

I need a floor for ...

My floor shall be ...

System A1: KLB INDUSTRIAL EP Standard  
Durable, long-life epoxy resin coating for commercial and industrial applications.

System A2: KLB INDUSTRIAL EP Rapid  
Rapid setting and quickly reusable epoxy resin coating in shops or fire pits.

System A3: KLB INDUSTRIAL EP RX  
Scrubbed and non-slip epoxy resin coating.

System A4: KLB INDUSTRIAL EP Robust  
Smooth and non-slip epoxy resin coating.

System A5: KLB INDUSTRIAL EP RX Robust  
Slip resistant and durable epoxy resin coating to be scattered with coloured sand.

System A6: KLB INDUSTRIAL EP Screen  
Smooth epoxy resin decorative coating.

System A7: KLB DECOR PHARMA EP Screen  
Smooth epoxy resin decorative master coating.

System A8: KLB INDUSTRIAL EP Structures  
Smooth and structured epoxy resin for wall and floor coating.

**References**

Floors made of reactive resin offer a wide range of design options and plenty of scope for your ideas – perhaps even for your project.

Kitchen floor coating at company Multivac  
The flooring was to offer the outdoor kitchen a durable, structural investment in a way that it combines many advantages in one system. In addition to a chemically resistant and ...

Showroom at the car dealer Burger-Schloz  
By the fact that the surfaces have a different use, they should be separated from each other by colour and at the same time, create a pleasing walking comfort when stepping on them.

Decorative special trowelling coating in a private residential building  
The great choice in the architectural design floor coating in the living room was the noble and elegant concrete design. At the same time, the concept should meet the specifications.

"Poletar Space" Stuttgart  
"Poletar Space" in Stuttgart is intended to set new standards for commercial and dealerships. The modern planned interior design with prominent area especially required a slip.

Wall coating in the shower cabins at the volunteer fire brigade  
For recreation rooms such as the changing rooms and additional to the changing rooms, a fire brigade, a volunteer fire brigade is generally to be considered a robust object.

Event location "Alte Mühle"  
In the event location "Alte Mühle", a coating system was installed that saves the character of the existing space at events. Structural resistance with subsequent good cleanability.

Office of a premium pet food retailer  
By using products combined in a modern, low-maintenance, the legal standards for recreational areas are more than fulfilled. It is a high-quality coating based on 2-component systems.

Comfortable flooring in an orthopaedic surgery  
For all floor coating in a private orthopaedic practice, an elastic coating was needed that would offer both staff and patients increased walking comfort, as an active coating, it ...

[www.klb-koetzal.de/en/systemfinder](http://www.klb-koetzal.de/en/systemfinder)

[www.klb-koetzal.de/en/klb-references](http://www.klb-koetzal.de/en/klb-references)

Please note: This Object Insight brochure shows exemplary build-ups for a specific area of application. It does not replace qualified, object-specific advice from KLB for your project. All stated information is based on our experience and technical preparation. We guarantee the correct and proper quality of our products. We do not assume responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions on site. We recommend on-site trials to be conducted in individual cases. In addition, our "General Terms and Conditions" apply.



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