

OBJECT INSIGHT

INSIGHT INTO VERY SPECIAL OBJECTS

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



*Conductive structured coating
in a car repair shop*

The Object

Jacobs Service Factory
52078 Aachen, GERMANY

Category: Car workshop
Area size: 5,000 m²
Completion: Dec. 2020

Floor covering:
Structured coating made of epoxy resin with the addition of silicium carbide

Area type:
Surfaces driven over by cars, workshop areas

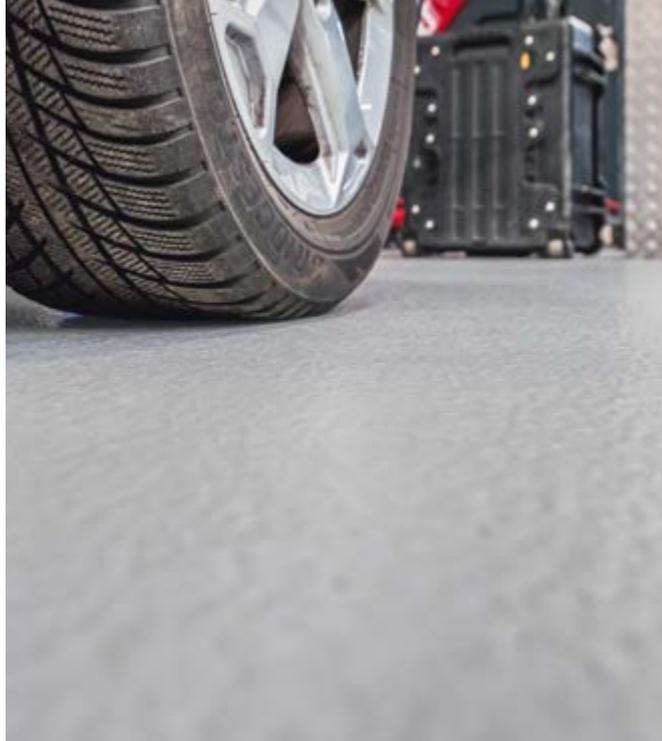
Requirements:
Resistant to mechanical loads, accessible by vehicles, chemical-resistant, non-slip and (in some areas) electrically conductive

Colour:
approx. RAL 7042 Traffic grey,
approx. RAL 7015 Slate grey

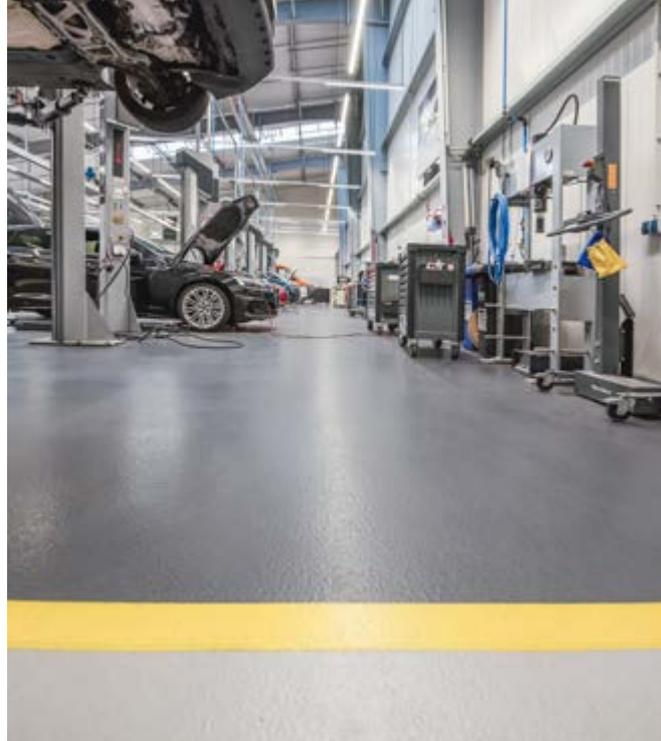


Insight: Conductive structured coating

The F5 coating system provides a durable and safe surface that both dissipates electrical charges and withstands mechanical exposure. Since it is also impermeable to liquids, it prevents chemicals from penetrating into the substrate.



Robust, structured surface.



The traffic routes and workshop areas were separated by colour.

System F5 KLB CONDUCTIVE EP EX SIC

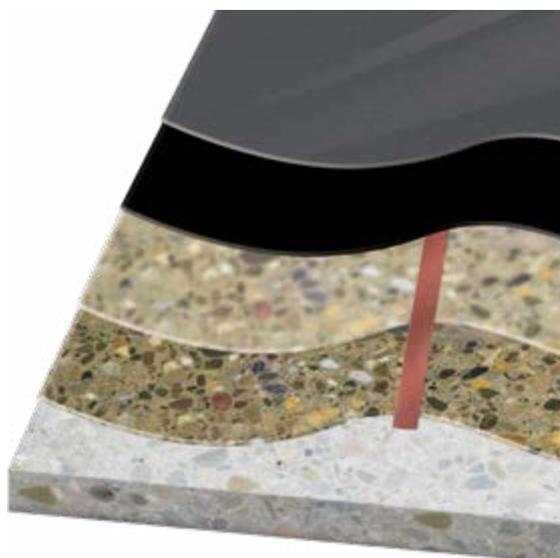
AUTOMOTIVE, GARAGES AND CAR PARKS / CAR WORKSHOPS

The car workshop "Jacobs" is a busy place: a large number of vehicles drive in and out every day, exposing the floor to mechanical stress and high friction or shear forces.

When it came to coating the new building in 2020, the requirements for the flooring were clear: good mechanical load-bearing capacity and electrical conductivity for some areas. Also important was a certain resistance to leaking oils, brake fluids, etc.

System F5 KLB CONDUCTIVE EP EX SIC has proven itself for such challenging environments. The conductive epoxy resin SIC structured coating is characterised by its mechanical robustness and high abrasion resistance. The slightly structured surface is non-slip yet easy to clean.

In order to protect the sensitive electronics inside the vehicles from electrical discharges, some areas were coated with the conductive **KLB-SYSTEM EPOXID EP 233 EL+**, and an underlying cross-conductive layer. After four years of intensive use, the coating is still in very good condition and therefore highly economical and robust in the long term.



Top coat with **KLB-SYSTEM EPOXID EP 233 EL+** and the addition of **KLB-Siliciumcarbid 0.3/0.8 mm**

Conductive layer **KLB-SYSTEM EPOXID EP 799 Ableitgrund**, with copper strip **KLB-Kupferband** attached underneath

Scratch coat with **KLB-SYSTEM EPOXID EP 52 Spezialgrund** and mixed sand **KLB-Mischsand 2/1**

Primer **KLB-SYSTEM EPOXID EP 52 Spezialgrund**

Watch it on
YouTube



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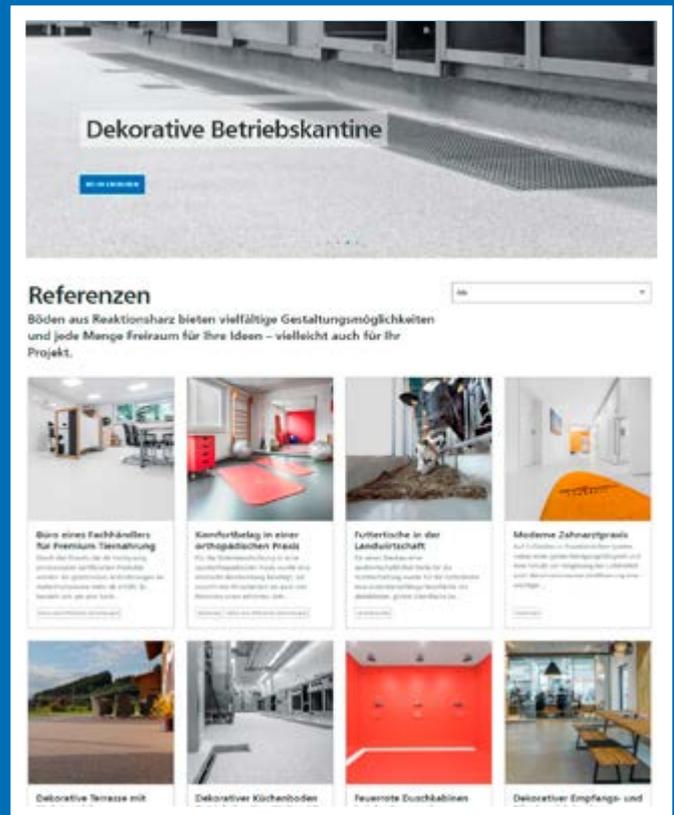


The systematic approach to great flooring.

You can find more systems and references on our website:



www.klb-koetzal.de/en/systemfinder



www.klb-koetzal.de/en/klb-references

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