

OBJECT INSIGHT

INSIGHT INTO VERY SPECIAL OBJECTS

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



*Crack-bridging surface protection
system based on OS 11a*

The Object

Surface protection system
in the car park of a hospital
89264 Weißenhorn, GERMANY

Category: Car park

Area size: 1,300 m²

Completion: Sept. 2023

Floor covering:

OS 11a coating, exposed to
weathering and UV radiation

Area type:

Driveways, parking spaces
and ramps used by motor
vehicles, both Indoor and
outdoor

Requirements:

Reliable protection of the
building fabric with dynamic
crack-bridging and long-term
fresh look through UV
stability

Colour:

approx. RAL 7042 Traffic grey

PARKDECK
EBENE 5



Insight: Crack-bridging based on OS 11a

The flexibility and high deformation capacity of OS 11a coatings enable good dynamic crack bridging in parking garages. The surface protection system thus prevents liquids or chemicals from penetrating and damaging the building's reinforcement through the finest cracks in the concrete.



Dynamic crack-bridging even at lower temperatures in winter.



Long-term corrosion protection of the reinforcing steel.

System K2 KLB PARKING PU OS 11a

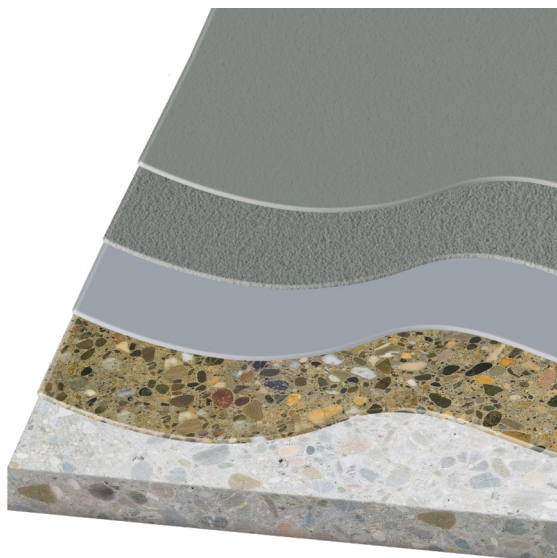
AUTOMOTIVE, GARAGES AND CAR PARKS / SURFACE PROTECTION SYSTEMS

Steel building structures are particularly vulnerable to frost and the ingress of de-icing salts, i.e. chloride. The risk of cracking and the resulting corrosion must be excluded by all means. For this reason, a coating system based on OS 11a should provide special protection in this multi-storey car park in Weißenhorn, GERMANY.

System K2 KLB PARKING PU OS 11a is characterised by its slip-resistance and dynamic crack-bridging capability: they make an important contribution to the safety and durability of concrete surfaces. The system fulfils all the requirements of TR maintenance (2020) standards based on OS 11a, and is suitable for both interior and exterior areas.

Thanks to the elasticity of the PU coating, cracks can be bridged at temperatures down to $-20\text{ °C} / -4\text{ °F}$, even in case of dynamic crack width changes due to mechanical or thermal influences. This allows the surface to remain intact for a longer time and acts as a waterproofing against the penetration of chemicals such as fuel or engine oil.

With the light-stable top sealer, **System K2** can be used in particular for weather-exposed parking decks as well as for unevenly sunlit areas on intermediate decks. The slip-resistance grade R11 ensures safe vehicle and pedestrian traffic. For ramps, the robust **K1 system** was used.



Top sealer
KLB-SYSTEM POLYUREA PU 5580

Wearing layer with **KLB-SYSTEM POLYURETHAN PU 5560**,
fully scattered with quartz sand **KLB-Quarzsand 0.3/0.8 mm**

Intermediate layer with
KLB-SYSTEM POLYURETHAN PU 5550

Primer with **KLB-SYSTEM EPOXID EP 5520**,
openly scattered with quartz sand **KLB-Quarzsand 0.3/0.8 mm**

Scan the QR code on your smart phone or open the following link to get to the digital version:
www.klb-koetztl.de/en/references/automotive/os-11a-car-park-surface-protection/



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 reduced epoxy resin coating.

System A5: KLB INDUSTRIAL EP RX Robust
Slip resistant and durable epoxy resin coating to be scrubbed 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 pleasant walking comfort when shopping on them.

Decorative special trowelling coating in a private residential building
The special choice in this residential building floor coating in the living room was the noble and elegant stone 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 permeable area especially required a slip.

Wall coating in the shower cabins at the volunteer fire brigade
For renovation rooms such as the changing rooms and additional of the changing rooms, a two-component floor-resin is generally to be considered a robust choice.

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 extremely low-maintenance, the legal standards for recreational areas are more than fulfilled. It is a high-quality coating based on 2-component polyurethane.

Comfortable flooring in an orthopaedic surgery
For slip-free walking on a sterile 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

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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