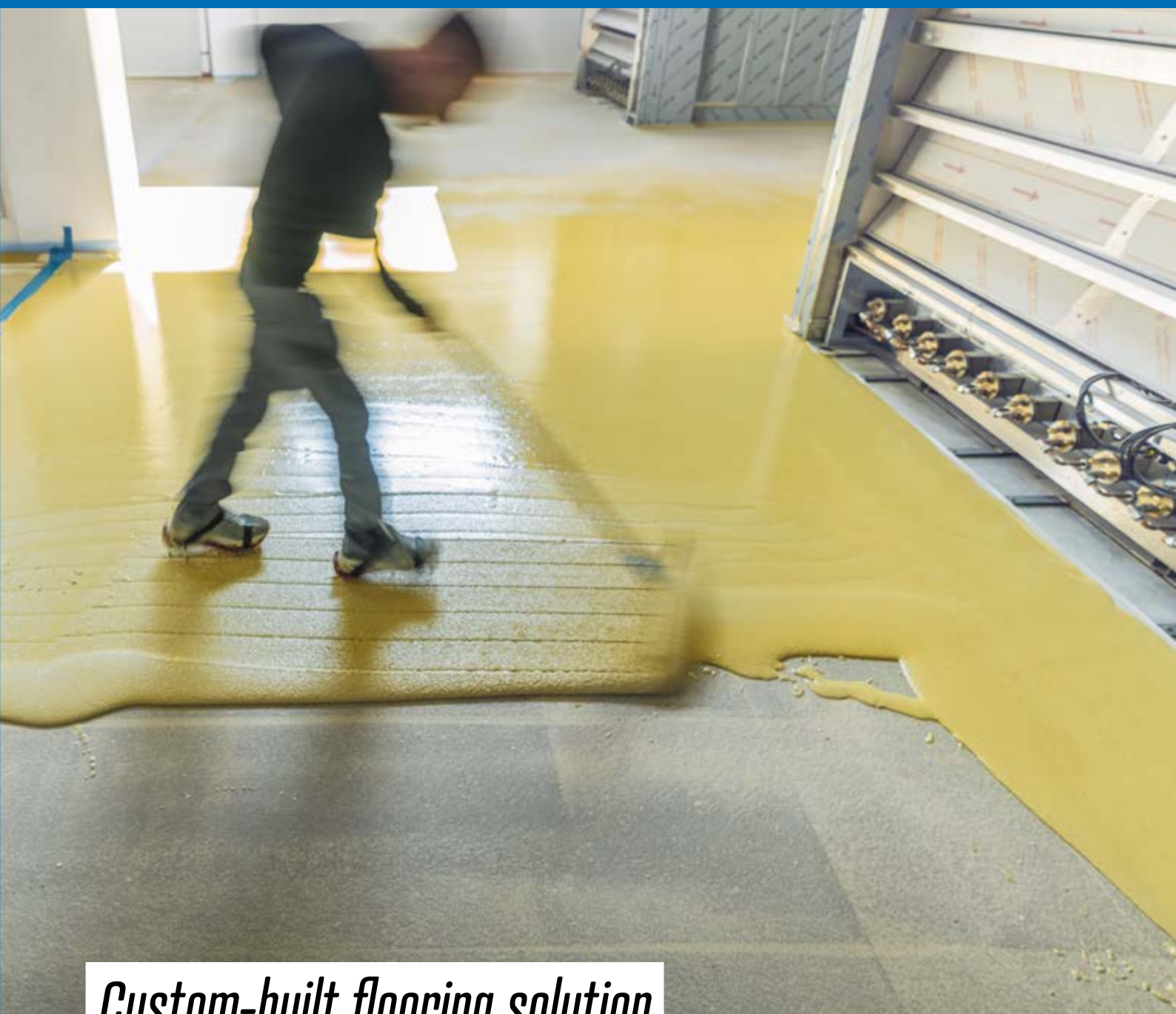


OBJECT INSIGHT

INSIGHT INTO VERY SPECIAL OBJECTS

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



*Custom-built flooring solution
— for maximum load capacity*

The Object

Der Beck GmbH
Am Weichselgarten 12
91058 Erlangen-Tennenlohe,
GERMANY

Category: Production

Area size: 4,500 m²

Completion: August 2024

Floor covering:

Resilient PU-CONCRETE
coating with high mechanical
and thermal load-bearing
capacity in R11 V4

Area type:

Traffic areas in production
facilities

Requirements:

Jointless flooring with high
thermal, mechanical resilience
and hygiene, suitable for
production activities



Insight: Accelerated, completed faster.

By adding the catalyst **CHEMORESIN PU-BETON 4094 KAT**, the curing time of the **CHEMORESIN PU-BETON 4080** top sealer is significantly accelerated. This optimisation reduces curing by approx. 50%, which means a considerable time advantage in both application and release of the surface – a major benefit, especially in time-critical construction projects.



Higher layer thickness, particularly beneficial for areas exposed to heavy loads.



Cutting anchoring grooves during the installation of PU-BETON.

CHEMORESIN PU-BETON

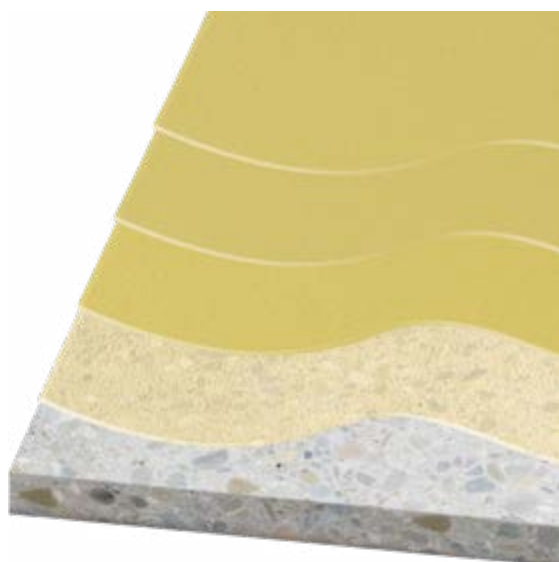
INDUSTRY / (FOOD) MANUFACTURING AND PRODUCTION

The industrial bakery "Der Beck GmbH" produces baked goods on a daily basis – a demanding environment for a floor covering, which must offer high thermal resistance, mechanical strength, and hygienic properties. Hot, heavy racks coming out of the baking ovens reaching temperatures of up to 200°C subject the floor to significant thermal stress during transport. At the same time, the flooring must be seamless and easy to clean in order to comply with the strict hygiene standards of the food industry.

The robust **CHEMORESIN PU-BETON 4006 / 4009** coatings in R11 V4 were selected for this demanding project. The accelerable products were used in different layer thicknesses to suit the specific requirements of each area: **PU-BETON 4009** (9 mm) was applied in zones exposed to higher

mechanical stress. Developed for extreme loads, it easily withstands temperature fluctuations of up to 150 °C / 302 °F (dry heat). Even the constant movement of heavy racks on castors causes no wear or damage. The floor can be cleaned using high-pressure cleaners and steam jets, and also offers excellent chemical resistance to detergents and other substances commonly used in food processing.

During substrate preparation, anchoring grooves were milled to create a permanent mechanical bond and to absorb stresses occurring during the curing process. These grooves are specifically provided along edges and transitions to protect the PU-BETON coating from detachment or thermal expansion. This ensures long-term stability and durability under the extreme conditions of this project.



Top sealer **CHEMORESIN PU-BETON 4080**

Addition of the catalyst **CHEMORESIN PU-BETON 4094 KAT**

Mortar coating with **CHEMORESIN PU-BETON 4006/4009**

Scattering with quartz sand **KLB-Quarzsand 0.3/0.8 mm**

Intermediate and levelling layer

CHEMORESIN PU-BETON 4045 (*partial areas)

Primer

CHEMORESIN PU-BETON 4051

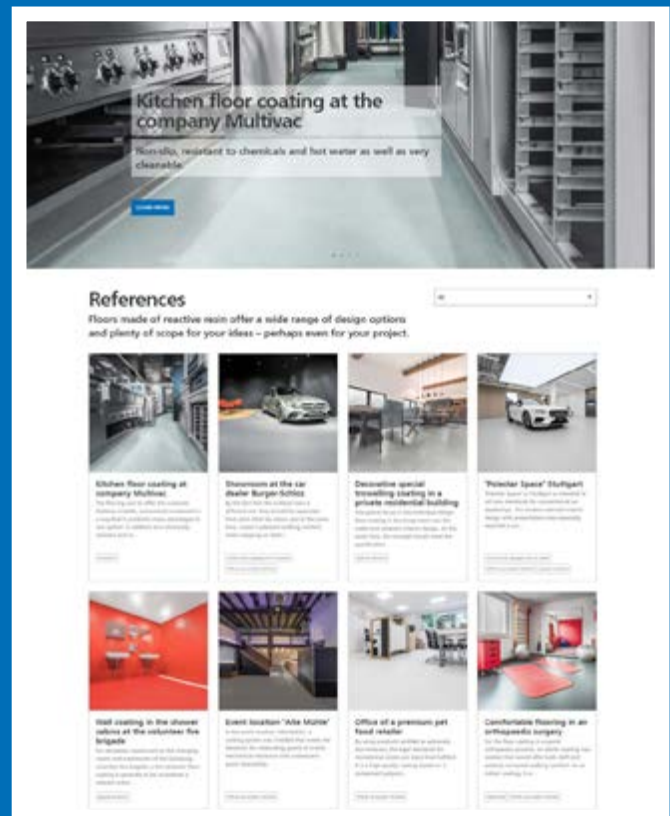
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YouTube



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