

# OBJECT INSIGHT

INSIGHT INTO VERY SPECIAL OBJECTS

INDUSTRY

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



*Production facilities for foodstuffs*

 KLB  
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# The Object

Factory for sunflower oil  
of producer PrJSC "MHP"  
UKR-24321 Ladyzhyn

Category: Production  
Area size: 3,540 m<sup>2</sup>  
Completion: Sept. 2022

Floor covering:  
Resilient PU-CONCRETE  
coating with high mechanical  
load-bearing capacity and  
chemical resistance

Area type:  
Traffic areas in  
production facilities

Requirements:  
Jointless flooring with high  
chemical resilience and  
hygiene, suitable for  
production activities



## *Insight: Polyurethane concrete in action*

PU CONCRETE offers the highest mechanical, chemical and thermal resistance and is therefore ideal for areas exposed to very high loads. Its advantages come into play mainly in the food industry with its constant wetness and frequent cleaning. The flooring can also be used in industrial halls with high mechanical stress, e.g. due to forklift traffic.



High thermal, chemical and mechanical resistance.



Robust utility flooring that also meets demands on hygiene.

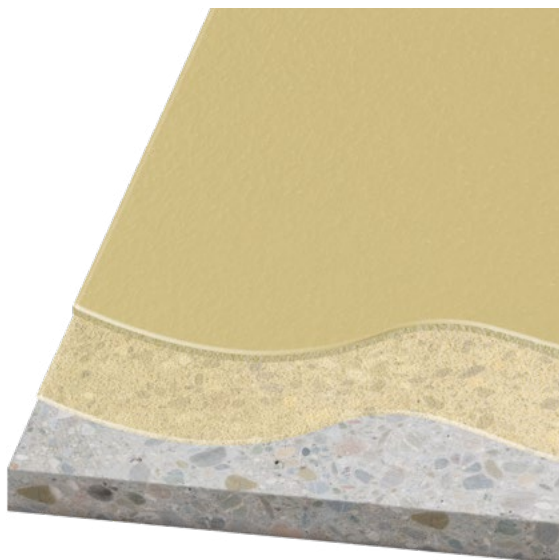
# *PU-CONCRETE fulfils the highest requirements*

## *INDUSTRY / MANUFACTURING AND PRODUCTION*

In food production, industrial floors are often subject to very heavy loads due to hot water and rapid temperature changes, aggressive chemicals and/or high mechanical loads. As other reactive resin systems are only suitable to a limited extent for these extreme conditions, the installation of a PU CONCRETE floor covering was the solution for the manufacturing facilities of foodstuffs producer PrJSC "MHP". With the high-adhesion primer **KLB-SYSTEM PU-BETON 4050 Grundierung** and the subsequently applied 3-component polyurethane mortar coating **KLB-SYSTEM PU-BETON 4006**, it was possible to obtain a highly resilient and hygienic floor, which is particularly advantageous for the chemically exposed areas in this food processing plant.

The high mechanical load-bearing capacity of the 6 mm thick mortar makes it optimally suited for production activities or forklift traffic and gives an impact-resistant, robust surface.

The slightly non-slip covering in level R9 can be cleaned with steam cleaners without affecting the flooring's high-quality technical properties. Compared to conventional synthetic resins, **PU-BETON 4006** withstands temperatures of up to 90 °C / 194 °F. If the use of the industrial hall or the type of production and processing requires a higher temperature resistance of up to 130 °C / 266 °F in moist heat and up to 150 °C / 302 °F in dry heat, **PU-BETON 4009** is a good alternative.



Mortar coating with  
**KLB-SYSTEM PU-BETON 4006**

Primer  
**KLB-SYSTEM PU-BETON 4050 Grundierung**

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/foodstuffs-production-facilities-pu-concrete/](http://www.klb-koetzal.de/en/references/industry/foodstuffs-production-facilities-pu-concrete/)





# The systematic approach to great flooring.

You can find more systems and references on our website:

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

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**KLB KÖTZTAL** Lacke + Beschichtungen GmbH

Günztalstraße 25  
89335 Ichenhausen, GERMANY

info@klb-koetzal.com

Phone: +49 (0) 8223-9692-0

Fax: +49 (0) 8223-9692-100

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