

Heavy-duty and safe.



Very convincing:

- high mechanical load capacity
- high temperature stability up to 150 °C / 302 °F
- different grades of slip resistance (R9 to R13)
- layers of 6 to 9 mm
- · steam cleaning possible
- colours availabe: beige, red, green and grey

KLB-SYSTEM PU-BETON

Industrial flooring with special features.

PU-BETON is able to cope with many things.

Industrial flooring has to put up with different things: it gets stepped on, driven on with material handling equipment, has to get in contact with water, heat, chemicals or harsh cleansers. To make a long story short: the flooring is the component with the highest load. To keep up with this load in any length of time the coating has to be extremely resistant on one hand and very well cleanable, hygienic and slip resistant on the other hand.

KLB-SYSTEM PU-BETON coatings are high-quality, 3-component polyurethane mortar coatings suitable for highly stressed floors. In comparison to other synthetic resin coatings, PU-BETON features much better temperature resistance. That's the reason why it is applied already for many years where floors get in contact very often with water, hot water, high temperatures and chemicals. Used in the food production and food processing industry as well as the beverage and chemical industry and many other areas.





Keep cool.

Stable even at high temperatures.

Heat doesn't bother PU-BETON.

Compared to many common synthetic resin coatings which capitulate at temperatures of 50 to 60 °C / 122 to 140 °F, **PU-BETON** features a considerably higher glass transition temperature. An excellent temperature stability is achieved by this: up to 130 °C / 266 °F for humid heat and up to 150 °C / 302 °F for dry heat. This is what makes **PU-BETON** perfect for high fluctuations of temperature and hot water. **PU-BETON** also allows the usage of steam jet cleaning equipment.

To select the perfect **PU-BETON**-flooring for your individual needs in industrial or trading business different system components and products as well as layers from 6 mm up to 9 mm are available. Since the coating is made out of one casting it offers good mechanical resistance.



Please note: All stated information is based on our previous experience and composition. It is not possible to consider every single case. Please seek advice for your special cases. 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. We recommend that on-site-trials will be conducted. Our "General Terms and Conditions" apply. With appearance of this new product brochure all prior information loses validity. The updated version is available on our website www.klb-koetztal.com.

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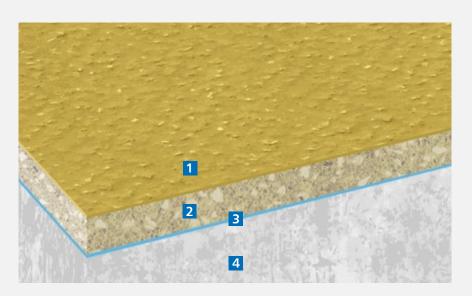
PU-BETON-SYSTEM is a perfectly aligned combination of different components: A high-quality polyurethane system combined with a hydraulic-setting binding agent, supplemented with special additives, pigments and additives. The combination depends on the demands, the usage site, the layer thickness and grade of slip resistance.

KLB-SYSTEM PU-BETON at a glance:



In areas with extreme fluctuations in temperature a stable substrate is very important beside the coating. Movements of the substrate due to temperature fluctuations as well as built-in parts like joints or gutters have to be kept in mind when coating. The components of **KLB-SYSTEM PU-BETON** are aligned in an optimal way and grant a high-quality result.

Build-up of coats - possibilities of combination for PU-BETON-coatings:



- 1 Top sealer KLB-SYSTEM PU-BETON 4080
- 2 Coating KLB-SYSTEM PU-BETON 4011 Grip
- Base coat KLB-SYSTEM PU-BETON 4050
- 4 Concrete floor at least C25/30

Watch out – slippery when wet!

The smoother the floor the easier the cleaning. This makes the flooring likeable for the user but it increases the slip danger. According to the rules of the employer's liability insurance association for safety and health at work BGR 181 "floor in working rooms and working areas with slip danger" the floor has to be slip resist-

ant for each respective application. At the same time the flooring has to have adequate displacement room so fluids do not lead to aquaplaning. To increase the protection against accidents KLB-SYSTEM PUBETON may be produced in slip resistance grades of R9 to R13.

PU-BETON has been certified by tests:

Fire test according to DIN EN 13501-1: PU-BETON 4006 / PU-BETON 4009 / PU-BETON 4011 Grip: classified; B_{fl}-s1: low flammability

Determination of slip resistance properties according to DIN 51130 and BGR 181 inspection

Grades of slip resistance: R9 - R10 - R11 - R12 - R13

The coating system is suitable for usage in the food industry

Testing according to chemical resistance, abrasion resistance, water impermeability and ability for disinfection



PU-BETON is a functional floor with special strength for special demands. **PU-BETON** shows an outstanding reliability against multiple chemicals. This makes **PU-BETON** interesting especially for the usage in industrial areas where the floor has quite often contact with different acids, alkalis, solvents and other chemicals.

Medium / Chemical	Concentration (%)*	Very short-term resistant	Short-term resistant	Resistant	Discolouration / Alteration
Acetone	100%	-			
Formic Acid	10%			-	
Benzine	100%			•	
Beer/Ale	100%			-	
Bio Diesel	100%			•	
Acetic Acid	10%			•	
Ethanol	98%			•	
Hot Water	100 °C			•	
Potassium Hydroxide	25%			•	
Methyl Ethyl Ketone	100%				
Lactic Acid	10%			•	
Sodium Hydroxide	20%			•	
	50%				
Peracetic Acid	2 %			-	
Nitric Acid	20%			•	-
	65%	•			-
Hydrocloric Acid	20%			•	•
Sulfuric Acid	20%			-	•
Skydrol LD 4	100%			•	
Phosphoric Acid	20%			-	-
	85%			•	-
Hydrogen Peroxide	30%			•	•
Tartaric Acid	5%			•	
Citric Acid	20%			-	

Resistant to chemicals & hygenic.

Chemicals should be removed regularly in spite of the high resistance because frequent load may affect the durability of the flooring.

The cleaning of the floor may be done with commercially used cleansing products. Additionally the pore-free structure prevents the growth of bacteria and fungus. Therefore **PU-BETON** meets the highest demands on hygiene.

To protect the flooring from bacteria, please use the antibacterial top sealer KLB-SYSTEM PU-BETON 4080 Kopfsiegel AntiBak. The antibacterial efficacy is possible through small active substance particles, which are embedded in the entire sealing. For further assistance, please ask!

Discolouration and alterations like fading, loss of lustre, yellowing or structural change of the surface may not be eliminated especially when using concentrated chemicals and chemical mixtures in particular. The functionality of the floor still remains. There is no assurance for a floor free of alterations.

[&]quot;Very short-term resistant" – contamination with chemicals should take a few hours to the max. The chemicals should be removed as soon as possible.

[&]quot;Short-term resistant" – contamination with chemicals should take a few days to the max. It is essential that the contamination is only temporary and a recovering phase is possible.

[&]quot;Resistant" – no alteration of the flooring could be detected within a 90 day period.

^{*} water diluted



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Certified according to ISO 9001.