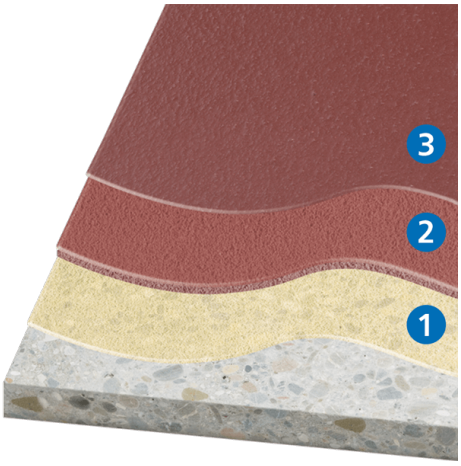
System I1
KLB TECH PU-BETON Standard

Slightly non-slip industrial floor coating for wet areas exposed to hot water and chemicals

The coating system I1 is characterised by a better temperature resistance than conventional epoxy or reactive resin systems. The slightly slip-resistant surface (R9 to R10) is cleanable with steam jets. Due to the chemical composition of the floor, it is not set to be resistant to UV exposure and thus, yellowing occurs. The high-quality technical properties of the flooring are not affected by this.

The PU-BETON system is used in areas that are frequently exposed to water, hot water, high temperatures or chemicals - which makes the system suitable for resilient floors such as in the food production and processing, beverage industry, chemical industry and many other sectors. **PU-BETON PU 4009** has a higher temperature resistance than **PU-BETON 4006**.

Alternative systems: System I2 with antislip properties of grades R11 to R13, System I3 with reduced installation times to obtain a slip-resistance grade of R11.



3. Top sealer **KLB-SYSTEM PU-BETON PU 4080**
2. Mortar coating **KLB-SYSTEM PU-BETON PU 4006/PU 4009**
1. Primer **KLB-SYSTEM PU-BETON PU 4050**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 6 - 10 mm
Top sealer (3)	**KLB-SYSTEM PU-BETON 4080 Kopfsiegel**
Mortar coating (2)	**KLB-SYSTEM PU-BETON 4006/4009**
Primer (1)	**KLB-SYSTEM PU-BETON 4050 Grundierung**
Substrate	Requirements to the substrate according to BEB worksheets and our primer list or by consultancy from our technical sales service/application technology. Suitable are concrete C25/30 or cement screed CT-C35-F5-V60 in minimum quality.

Area of application

Industry:

- Manufacturing and production

Foodstuffs:

- Butcheries, slaughterhouses, dairy, meat and fish industry
- Beverages industry and breweries
- Commercial kitchens

Special solutions:

- Resistance to hot water

System features

- resistant to chemicals
- impervious to fluids
- resistant to industrial trucks
- resistant to hot water up to 120 °C / 248 °F
- resistant to mechanical load
- rigid
- matt
- slightly slip-resistant R9/R10
- structured

Technical data

Bending tensile strength (PU-BETON 4006)	15	N/mm²	DIN EN 196/1
Compressive strength (PU-BETON 4006)	43	N/mm²	DIN EN 196/1
Shore-hardness D (PU-BETON 4006)	82	-	DIN 53505 (after 7 days)
Bending tensile strength (PU-BETON 4009)	14	N/mm²	DIN EN 196/1
Compressive strength (PU-BETON 4009)	45	N/mm²	DIN EN 196/1
Shore-hardness D (PU-BETON 4009)	85	-	DIN 53505 (after 7 days)

The values established in tests are average values. Deviations from the product specification may occur.

Tests and certifications

The following external test certificates are available for the system:

- Fire behaviour classification according to DIN EN 13501-01:2010-01: B_{fl}-s1
- Slip-resistance grades R9 and R10 according to DIN 51130 and BGR 181
- Suitable for use in foodstuffs according to § 31 para. 1, German Food and Feed Code (German law LFGB)
- Proof of usability as industrial kitchen coating within the system
- Bacteriostatic activity in combination with **KLB-SYSTEM PU-Beton PU 4080 Clean** according to ISO 22196-2011-08 and JIS 2801:2000
- Declaration of performance in accordance with Annex III to Regulation (EU) No. 305/2011 (Construction Products Regulation)
- Declaration of product conformity with Environmental Product Declarations (EPD)

Please consider the latest version of this system information on our website.

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