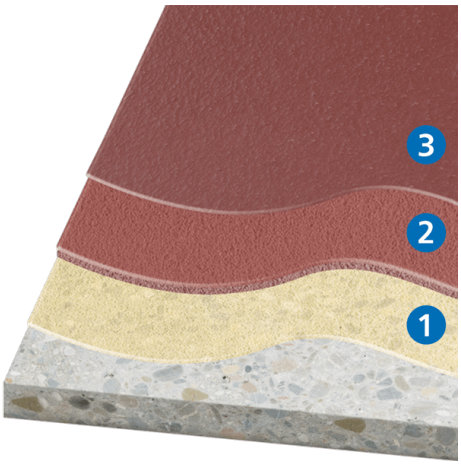
System I1
KLB CHEMORESIN PU-BETON Standard

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 (grade R9 to R10) is cleanable with steam jets. Due to its chemical composition, it is not light-stable and thus, yellowing can occur. However, the high-quality technical properties of the flooring are not affected by this.

This CHEMORESIN PU-BETON system is used in areas that are frequently exposed to water, hot water, high temperatures or chemicals – which makes it suitable for floor coverings in the food production and processing, beverage industry, chemical industry and many other sectors. The thermal resistance depends on the layer thickness or the type of mortar coating. **CHEMORESIN PU-BETON PU 4009** has a higher temperature resistance than **PU-BETON 4006**, whereas **PU-BETON 4004** has the lowest thermal stability. The individual components of **System I1** have been certified by EUROFINS and each carries the EMICODE EC1 Plus label; thus meeting the requirements for a sustainable building certification according to DGNB, LEED or BREEAM; not only the German requirements of AgBB or ABG, but also the emissions regulations of many other European countries.

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 **CHEMORESIN PU-BETON 4080**
2. Mortar coating **CHEMORESIN PU-BETON 4004/4006/4009**
1. Primer **CHEMORESIN PU-BETON 4051**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 4 - 10 mm (depending on mortar coating)
Top sealer (3)	**CHEMORESIN PU-BETON 4080**
Mortar coating (2)	**CHEMORESIN PU-BETON 4004/4006/4009**
Primer (1)	**CHEMORESIN PU-BETON 40501**
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

Technical data

Bending tensile strength (CHEMORESIN PU-BETON 4004)	15	N/mm²	DIN EN 196/1
Compressive strength (CHEMORESIN PU-BETON 4004)	43	N/mm²	DIN EN 196/1
Shore-hardness D (CHEMORESIN PU-BETON 4004)	82	-	DIN 53505 (after 7 days)
Bending tensile strength (CHEMORESIN PU-BETON 4006)	15	N/mm²	DIN EN 196/1
Compressive strength (CHEMORESIN PU-BETON 4006)	43	N/mm²	DIN EN 196/1
Shore-hardness D (CHEMORESIN PU-BETON 4006)	82	-	DIN 53505 (after 7 days)
Bending tensile strength (CHEMORESIN PU-BETON 4009)	14	N/mm²	DIN EN 196/1
Compressive strength (CHEMORESIN PU-BETON 4009)	45	N/mm²	DIN EN 196/1
Shore-hardness D (CHEMORESIN PU-BETON 4009)	85	-	DIN 53505 (after 7 days)
Gloss level (CHEMORESIN PU-BETON 4080)	< 10 (85°)	-	DIN 67530

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

Tests and certifications

The following external and internal test certificates are available for the system:

- Bacteriostatic activity in combination with **KLB-SYSTEM PU-Beton PU 4080 Clean** according to ISO 22196-2011-08 and JIS 2801:2000
- Individual products are certified as low-emission according to EMICODE with the EC1 Plus label. Compliant with AgBB for recreation rooms.
- 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)

Special remarks

The hardening times can be reduced by adding CHEMORESIN PU-BETON 4094 KAT. Please observe the product data sheet of the catalyst.

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

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