

## System H2

### KLB KITCHEN LOW-VOC PU

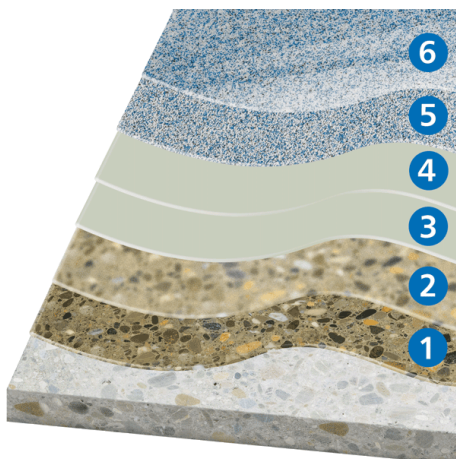


Low-emission, slip-resistant polyurethane coating for kitchens

The coating system H2 fulfils all demands for both commercial or industrial kitchen floors and other wet surfaces that require robust and slip-resistant coatings. The system has been tested, among others, as kitchen flooring with a hot water resistance of 90 °C / 194 °F under fluctuating thermal conditions; short-term exposure to "dry heat" was simulated by a silicone oil shock test at 180 °C / 356 °F. The binding agents in this system are designed to be low-emission.

The system complies with the requirements posed by Indoor Air Comfort Gold Label version 6.0 (2017) which guarantees regular testing and confirmation of the system's low emissions. The components of this build-up have been certified for sustainable building according to DGNB, LEED or Minergie ECO. Alternatively, there can be produced a coating scattered with quartz sand and sealed in one colour.

**Alternative systems:** [System H1](#) without any requirements on low emissions, [System H3](#) as rapid-setting version.



6. Top sealer **KLB-SYSTEM POLYURETHAN PU 484**
5. Base coat with **KLB-SYSTEM POLYURETHAN PU 424**, filled with mixed sand **KLB-Mischsand 3/1**, then fully scattered with **KLB coloured quartz CQS**
4. Second waterproofing layer **KLB-SYSTEM ABDICHTUNG CW 510**
3. First waterproofing layer **KLB-SYSTEM ABDICHTUNG CW 510**
2. Scratch coat with **KLB-SYSTEM EPOXID EP 58** and mixed sand **KLB-Mischsand 2/1**, openly scattered with **KLB quartz sand**
1. Primer **KLB-SYSTEM EPOXID EP 58**

## System build-up

Layer	See product information for more details
Total layer thickness	approx. 5 - 7 mm
Top sealer (6)	KLB-SYSTEM POLYURETHAN PU 484
Base layer (5)	KLB-SYSTEM POLYURETHAN PU 424, filled with mixed sand KLB-Mischsand 3/1, then fully scattered with KLB coloured quartz sand CQS-46xx
Second waterproofing layer (4)	KLB-SYSTEM ABDICHTUNG CW 510** <small>**alternatively, PU 420 can be applied in one layer as composite sealant (not tested according to EAD 030352-00-0503)</small>
First waterproofing layer (3)	KLB-SYSTEM ABDICHTUNG CW 510**
Scratch coat (2)	KLB-SYSTEM EPOXID EP 58* with mixed sand KLB-Mischsand 2/1, openly scattered with KLB quartz sand
Primer (1)	KLB-SYSTEM EPOXID EP 58* <small>*Alternatively, under certain conditions, EP 53 Spezialgrund AgBB can be used also on wetter substrates (of up to approx. 6.0 CM-%).</small>
Substrate	Requirements to the substrate according to BEB worksheets and our primer list or by consultancy from our technical sales service/application technology

## Area of application

### Foodstuffs:

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

### Special solutions:

- Low-emission coatings

## Technical data

Shore-hardness D (CW 510)	ca. 35	-	DIN 53505 (after 7 days)
Breaking strain (CW 510)	> 100	%	DIN EN ISO 527
Tensile strength (CW 510)	> 5	N/mm <sup>2</sup>	DIN EN ISO 527

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:

- Proof of usability in system H2 as industrial kitchen coating
- Certified as low-emission according to Eurofins "Indoor Air Comfort Gold". Compliant with AgBB and suitable for recreation rooms.
- Slip-resistance according to DIN EN 16165 and DIN 51130: grades R10 V4, R11 V4, R11 V6 or R12 V8
- Top sealant **PU 484** is suitable for use in foodstuffs according to § 31 para. 1, German Food and Feed Code (German law LFGB)
- 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)
- Fire behaviour classification according to DIN EN 13501-01:2010-0: B<sub>fl</sub>-s1
- Tested composite waterproofing underneath synthetic resin coverings for sealant **CW 510** based on W1-I to W3-I according to DIN 18534.

**Special remarks**

Prepare and seal connections, inlets, penetrations and other elements using suitable sealing tapes with CW 510 after the scratch coat has been applied.



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

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All stated information is based on our experience and technical preparation. We guarantee the correct and proper quality of our products. We do not assume any responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions. We recommend on-site trials to be conducted. With appearance of this new KLB system information, all prior information loses validity. The updated version is available on our website [www.klb-koetzal.com](http://www.klb-koetzal.com). In addition, our "General Terms and Conditions" apply.