System G1
KLB INDUSTRIAL LOW-VOC PU Standard

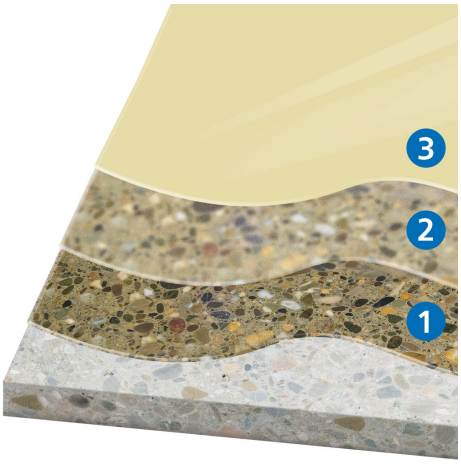
Smooth, low-emission polyurethane resin coating

The coating system G1 fulfils all demands on hard and elastic coatings exposed to lower or medium stress. It is particularly used for substrates susceptible to deformation such as mastic asphalt, metal, wood or mixed subfloors.

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 which makes the system perfectly suitable for recreational rooms.

To prevent yellowing, a colour-stable, light-resistant top sealer should be applied afterwards - please refer to **System G2**.

Alternative systems: System G2 for a higher slip-resistance, System G8 for higher walking comfort.



3. Top coat **KLB-SYSTEM POLYURETHAN PU 420** - optional: injecting structuring agent **Strukturgranulat RQX 9/RQX 10**
2. Scratch coat with **KLB-SYSTEM EPOXID EP 57** and mixed sand **KLB-Mischsand 2/1,** openly scattered with **KLB quartz sand**
1. Primer **KLB-SYSTEM EPOXID EP 57**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 2.5 - 3 mm
Top coat (3)	**KLB-SYSTEM POLYURETHAN PU 420**, optional: injecting structured granulate **Strukturgranulat RQX 9/RQX 10**
Scratch coat (2)	**KLB-SYSTEM EPOXID EP 57***, mixed with **KLB-Mischsand 2/1**, openly scattered with quartz sand **KLB-Quarzsand 0.3/0.8 mm**
Primer (1)	**KLB-SYSTEM EPOXID EP 57*** *alternatively, EP 58 or EP 53 Spezialgrund AgBB can be used.
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

Industry:

- Manufacturing and production
- Storage and logistics

Foodstuffs:

- Food markets and sales areas
- Cold storage and deep-freezing rooms

Technical data

Bending tensile strength (PU 420)	40	N/mm²	DIN EN 196/1
Compressive strength (PU 420)	45	N/mm²	DIN EN 196/1
Shore-hardness D (PU 420)	65	-	DIN 53505 (after 7 days)
Abrasion (Taber Abraser) (PU 420)	55	mg	ASTM D4060 (CS10/1000)

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:

- Slip-resistance according to DIN 51130 and BGR 181: grades R9 or R10 by injection of structured granulate **Strukturgranulat RQX 9** or **RQX 10**

- Suitable for use in foodstuffs according to § 31 para. 1, German Food and Feed Code (German law LFGB).
- Certified as low-emission according to Eurofins "Indoor Air Comfort Gold“. Compliant with AgBB and suitable for recreation rooms.
- Paint wetting disorders according to PV 3.10.7. (VW test)
- 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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