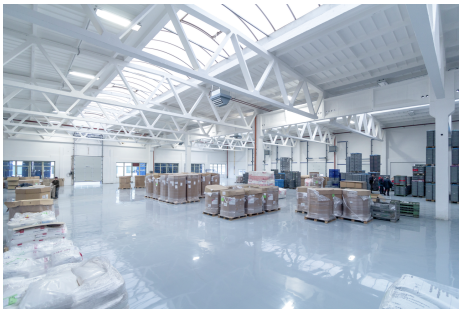
System A1
KLB INDUSTRIAL EP Standard

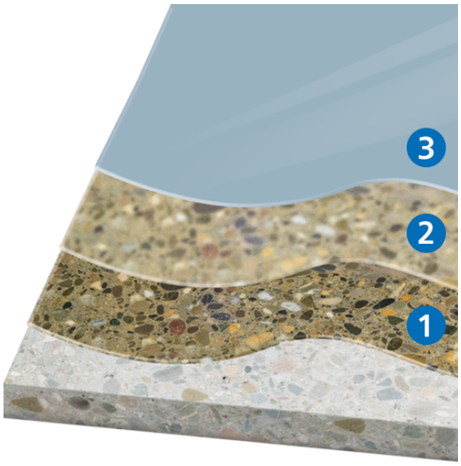
Smooth, slightly slip-resistant epoxy resin coating for commercial and industrial applications



The coating system A1 is mainly used for commercial and industrial floorings with medium mechanical load. The system has a smooth surface as standard, which can also be set to have a slip-resistance grade of R9 or R10 by injecting the structured granulate Strukturgranulat RQX9/10.

This universal coating system complies with the requirements for production areas or warehouse facilities in commerce and industry, but also in several other economic sectors. It can withstand the loads from the circulation of material handling equipment, while still offering a good cleanability.

Alternative systems: System A3 for a higher slip-resistance, System A5 for higher demands on mechanical load.



3. Top coat **KLB-SYSTEM EPOXID EP 216 Universal** - optional: injecting structured granulate **Strukturgranulat RQX 9/10**
2. Scratch coat with **KLB-SYSTEM EPOXID EP 50** and mixed sand **KLB-Mischsand 2/1**
1. Primer **KLB-SYSTEM EPOXID EP 50**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 2.5 - 3 mm
Top coat (3)	**KLB-SYSTEM EPOXID EP 216 Universal**, optional: injecting structured granulate **Strukturgranulat RQX 9/RQX 10**
Scratch coat (2)	**KLB-SYSTEM EPOXID EP 50*** and mixed sand **KLB-Mischsand 2/1**
Primer (1)	**KLB-SYSTEM EPOXID EP 50*** *alternatively, EP 52 Spezialgrund, EP 52 RAPID, etc. 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
- Laboratory

Automotive, garages and car parks:

- Manufacturing and production
- Car workshops
- Garages in private use

System features

- application area - Indoor
- resistant to hot water up to 65 °C / 149 °F
- resistant to chemicals
- impervious to fluids
- resistant to industrial trucks
- resistant to mechanical load
- rigid
- glossy
- smooth
- slightly slip-resistant R9/R10

Technical data

Bending tensile strength (EP 216 Universal)	> 45	N/mm²	DIN EN 196/1
Compressive strength (EP 216 Universal)	> 55	N/mm²	DIN EN 196/1
Shore-hardness D (EP 216 Universal)	80	-	DIN 53505 (after 7 days)
Abrasion (Taber Abraser) (EP 216 Universal)	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:

- Fire behaviour classification according to DIN EN 13501-01:2010-0: B_{fl}-s1
- 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).
- Ease of decontamination according to DIN 25415-1: Excellent
- 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	To obtain a slip-resistance of R9/R10, the surface must be scattered with structured granulate Strukturgranulat RQX 9 or RQX 10.

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

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