



System E3

KLB INDUSTRIAL DIFFUSION LOW-VOC EP RX

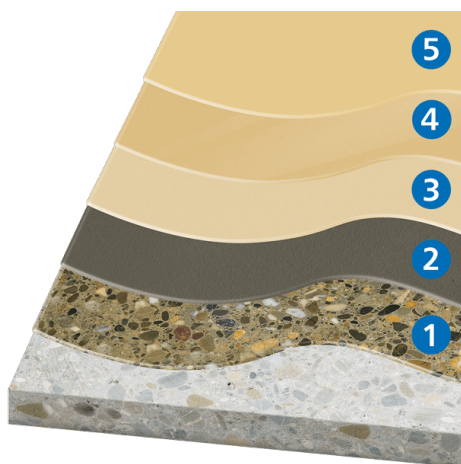
Water vapour-permeable, low-emission, non-slip epoxy resin coating

The coating system E3 is particularly suitable for renovating commercial and industrial surfaces that, from a technical point of view, require to be water vapour-permeable - which is the case when magnesia or calcium sulphate screeds need to be reworked. Or generally, for all substrates with rising damp or higher moisture.

The system produces a surface with slip-resistance grade R11.

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.

Alternative systems: [System E1](#) for low demands on mechanical load, [System E2](#) for a thin-layered, smooth and vapour-permeable coating.



5. Matt sealer **KLB-SYSTEM EPOXID EP 740 E**
4. Top sealer **KLB-SYSTEM EPOXID EP 785 HS**
3. Top coat **KLB-SYSTEM EPOXID EP 785 HS**, fully scattered with **KLB quartz sand**
2. Balancing depth of roughness with **KLB-SYSTEM EPOXID EP 782 E Spachtelgrund**
1. Primer **KLB-SYSTEM EPOXID EP 727 E**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 2.5 - 3.5 mm (dry)
Matt sealer	KLB-SYSTEM EPOXID EP 740 E
Top sealer (4)	KLB-SYSTEM EPOXID EP 785 HS
Top coat (3)	KLB-SYSTEM EPOXID EP 785 HS , fully scattered with KLB quartz sand
Scratch coat (2)	KLB-SYSTEM EPOXID EP 782 E Spachtelgrund* <small>*alternatively, with EP 724 E Haftgrund Super while adding water and quartz sand 0.3/0.8 mm</small>
Primer (1)	KLB-SYSTEM EPOXID EP 727 E* <small>*alternatively, with EP 724 E Haftgrund Super while adding water</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

Industry:

- Manufacturing and production
- Storage and logistics

Automotive, garages and car parks:

- Car parks, parking decks and underground parking lots

Special solutions:

- Low-emission coatings

System features

- application area - Indoor
- water vapour-permeable
- resistant to mechanical load
- rigid
- silk-matt
- slip-resistant in R11
- low-VOC (AgBB)
- structured

Technical data

Compressive strength (EP 785 HS)	> 50	N/ mm ²	DIN EN 196/1
Shore-hardness D (EP 785 HS)	80	-	DIN 53505 (after 7 days)
Diffusion equivalent air layer thickness Sd (EP 785 HS)	(2 mm) 2,6	m	DIN EN ISO 7783-2
Diffusion resistance rate (EP 740 E)	3100	-	DIN EN ISO 12572
Abrasion (Taber Abraser) (EP 740 E)	< 70	mg	ASTM D4060 (CS10/1000)
Gloss level (EP 740 E)	20 - 30 (85°)	-	DIN 67530

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:

- Certified as low-emission according to Eurofins "Indoor Air Comfort Gold". Compliant with AgBB and suitable for recreation rooms.
- Fire behaviour classification (with **EP 706 E**) according to DIN EN 13501-01:2010-01: B_{fl}-s1 (as smooth coating with matt sealant **EP 706 E**)
- Slip-resistance according to DIN 51130 and BGR 181: grade R11 V4 (with top sealant **EP 742 E**)
- 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.

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. In addition, our "General Terms and Conditions" apply.