

System E1

KLB INDUSTRIAL DIFFUSION LOW-VOC EP Color

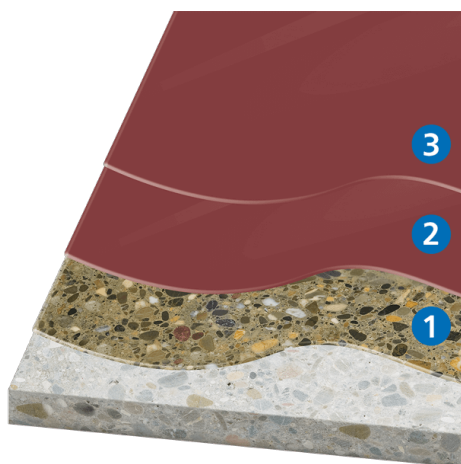
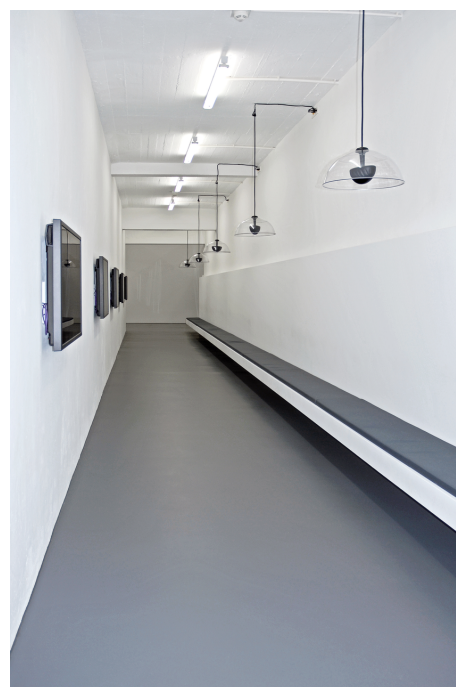
Low-emission, vapour-permeable and economic epoxy resin top sealer

The coloured sealing system E1 enables an economical installation of coatings in commercial or industrial areas with lower mechanical stress, and produces a smooth or slightly non-slip, silk matt surface. The system is used as sealer to be directly applied on concrete, cement, magnesia, anhydrite and mastic asphalt screeds - not only on floors, but also on walls and ceilings.

The main areas of application are commercial and industrial sectors exposed to lower stresses, cellars, technical or storage rooms. It can also be equipped with slip-resistance properties. From a technical point of view, it is suitable for surfaces that require to be water vapour-permeable, which is the case when magnesia or calcium sulphate screeds need to be reworked. Or generally, for all "waterproof" substrates with rising damp or higher moisture.

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 E2](#) as thick-layered, vapour-permeable coating, [System E3](#) with a slip-resistant and structured surface.



3. Second sealing layer with **KLB-SYSTEM EPOXID EP 740 E**
2. Top sealer **KLB-SYSTEM EPOXID EP 740 E**
1. Primer **KLB-SYSTEM EPOXID EP 727 E**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 0.25 - 0.35 mm (dry)
Second sealing layer (3)	KLB-SYSTEM EPOXID EP 740 E
Top sealer (2)	KLB-SYSTEM EPOXID EP 740 E
Primer (1)	KLB-SYSTEM EPOXID EP 727 E
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

Agriculture:

- Animal husbandry and feeding tables

External surfaces:

- Commercial exterior coatings

Special solutions:

- Low-emission coatings
- Functional wall coatings

System features

- application area - Indoor
- application area - Outdoor
- water vapour-permeable
- rigid
- silk-matt
- smooth
- slightly slip-resistant R9/R10

Technical data

Diffusion resistance rate (EP 740 E)	3100	-	DIN EN ISO 12572
Diffusion equivalent air layer thickness Sd (EP 740 E)	(0.5 mm) 1.6	m	DIN EN ISO 7783-2
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.
- Slip-resistance grade R10 possible according to DIN 51130 and BGR 181 in combination with **RHX 75**
- Fire behaviour classification according to DIN EN 13501-01:2010-01: B₁-s1
- 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.