System E2

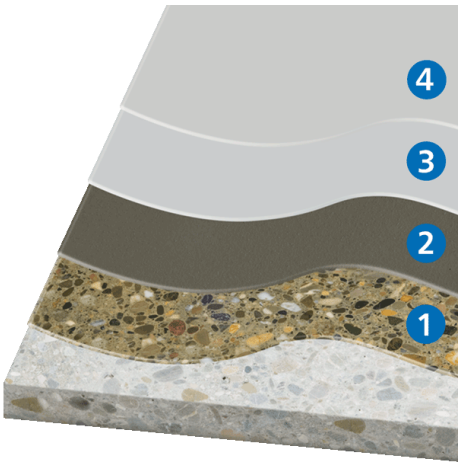
KLB INDUSTRIAL DIFFUSION LOW-VOC EP Standard

Water vapour-permeable, low-emission epoxy resin coating

The coating system E2 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 "waterproof" substrates with rising damp or higher moisture. Depending on the formulation, a smooth or slightly non-slip surface with a slip-resistance grade of R9 or R10 can be produced.

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 very low demands on mechanical load, System E3 for a thick-layered, slip-resistant and vapour-permeable coating.



4. Top sealer **KLB-SYSTEM EPOXID EP 740 E**
3. Top coat **KLB-SYSTEM EPOXID EP 785 HS**
2. Scratch coat 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. 1.5 - 2 mm (dry)
Top sealer (4)	**KLB-SYSTEM EPOXID EP 740 E**
Top coat (3)	**KLB-SYSTEM EPOXID EP 785 HS**
Scratch coat (2)	**KLB-SYSTEM EPOXID EP 782 E Spachtelgrund*** *alternatively, EP 724 E Haftgrund Super with the addition of water and quartz sand 0.3/0.8 mm
Primer (1)	**KLB-SYSTEM EPOXID EP 727 E*** *alternatively, EP 724 E Haftgrund Super with the addition of water
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

Technical data

Compressive strength (EP 785 HS)	> 50	N/ mm²	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 according to DIN EN 13501-01:2010-01: B_{fl}-s1
- Slip-resistance according to DIN 51130 and BGR 181: grade R10 by mixing in anti-slip additive RHX 75 into EP 740 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.

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