



System F9

KLB CONDUCTIVE DIFFUSION LOW-VOC EP EX

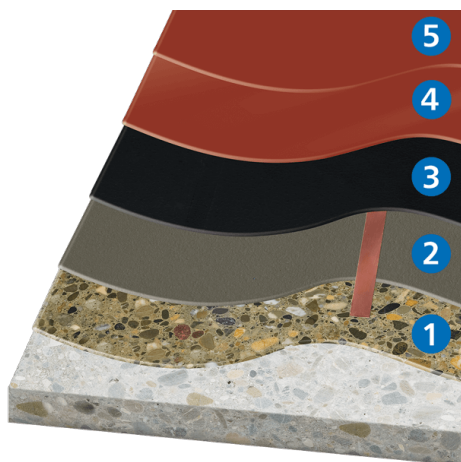
Water vapour-permeable, low-emission, conductive epoxy resin coating

The coating system F9 is particularly suitable for substrates with rising moisture from the rear or generally, increased damp, "waterproof" substrates. It can be used on all floors that, from a technical point of view, must not be coated with a vapour-proof covering, while still being electrically conductive. However, the system can also be used in the electrical and electronics industry where ESD protection is required.

Typical application areas for this diffusible smooth coating are, for example, when reworking magnesia or calcium sulphate screeds on industrial or commercial surfaces with medium mechanical load.

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 F1](#) for EX protection, [System F2](#) for ESD requirements.



5. Top sealer **KLB-SYSTEM POLYURETHAN PU 813 EL+/ESD**
4. Top coat **KLB-SYSTEM EPOXID EP 785 EL+**
3. Conductive layer **KLB-SYSTEM EPOXID EP 799 Ableitgrund** with copper strip **KLB-Kupferband** attached underneath
2. Scratch coat with **KLB-SYSTEM EPOXID EP 782 E Spachtelgrund**
1. Primer **KLB-SYSTEM EPOXID EP 727 E**

Layer	See product information for more details
Total layer thickness	approx. 2.0 - 2.5 mm
Top sealer (5)	KLB-SYSTEM POLYURETHAN PU 813 EL+/ESD** **alternative sealing with EP 790 EL+ with better plasticiser resistance
Top coat (4)	KLB-SYSTEM EPOXID EP 785 EL+
Conductive layer (3)	KLB-SYSTEM EPOXID EP 799 Ableitgrund, with copper strip KLB-Kupferband attached underneath
Scratch coat (2)	KLB-SYSTEM EPOXID EP 782 E Spachtelgrund* *alternatively, with EP 724 E Haftgrund Super while adding water and quartz sand 0.3/0.8 mm
Primer (1)	KLB-SYSTEM EPOXID EP 727 E* *alternatively, EP 724 E Haftgrund Super while adding 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

Special solutions:

- Anti static flooring
- Low-emission coatings

Healthcare:

- Hospital
- Pharmaceutical industry
- Clean room

Technical data

Compressive strength (EP 785 EL+)	> 50	N/ mm ²	DIN EN 196/1
Diffusion resistance rate (EP 785 EL+)	1290	-	DIN EN ISO 12572
Diffusion equivalent air layer thickness Sd (EP 785 EL+)	(2 mm) 2.6	m	DIN EN ISO 7783-2
Electrical resistance (EP 785 EL+)	(in combination with EP 799 Ableitgrund) Approx. 10 ⁶	Ohm	DIN EN 61340-4-1
Shore-hardness D (EP 785 EL+)	80	-	DIN 53505 (after 7 days)

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.
- 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)



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