KLB KÖTZTAL
Lacke+Beschichtungen GmbH

System F8
KLB CONDUCTIVE CLEAN EP EX

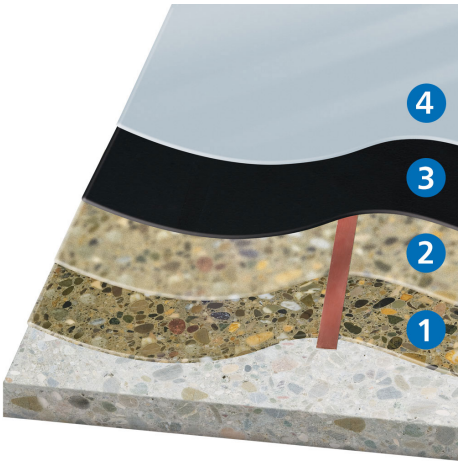
Low-emission, electrically conductive epoxy resin coating

The coating system F8 is able to fulfil all requirements on commercial or industrial areas that require a smooth, low-emission and at the same time, dissipative coating with EX protection (e.g. clean rooms).

The system is particularly suitable for surfaces in the pharmaceutical sector, biotechnology and chemistry - but also on surfaces decontaminated with hydrogen peroxide.

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 as smooth coating with EX protection, System F3 as smooth ESD coating.



4. Top coat **KLB-SYSTEM EPOXID EP 202 Clean 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 57** and mixed sand **KLB-Mischsand 2/1**
1. Primer **KLB-SYSTEM EPOXID EP 57**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 2.0 - 2.5 mm
Top coat (4)	**KLB-SYSTEM EPOXID EP 202 Clean EL+**
Conductive layer (3)	**KLB-SYSTEM EPOXID EP 799 Ableitgrund**, with copper strip **KLB-Kupferband** attached underneath
Scratch coat (2)	**KLB-SYSTEM EPOXID EP 57*** with mixed sand **KLB-Mischsand 2/1**
Primer (1)	**KLB-SYSTEM EPOXID EP 57*** *alternatively, EP 58 or EP 53 Spezialgrund AgBB 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
- Conductive floors (ESD)

Healthcare:

- Hospital
- Laboratory
- Pharmaceutical industry
- Clean room

Special solutions:

- Explosion protection coating (conductive)

System features

- resistant to chemicals
- impervious to fluids
- antibacterial
- resistant to mechanical load
- glossy
- smooth
- low-VOC (AgBB)
- conductive (EX/personal protection)

Technical data

Bending tensile strength (EP 202 Clean EL+)	60	N/ mm²	DIN EN 196/1
Compressive strength (EP 202 Clean EL+)	78	N/ mm²	DIN EN 196/1
Shore-hardness D (EP 202 Clean EL+)	81	-	DIN 53505 (after 7 days)
Abrasion (Taber Abraser) (EP 202 Clean EL+)	47	mg	ASTM D4060 (CS10/1000)
Electrical resistance (EP 202 Clean EL+)	(in combination with EP 799 Ableitgrund) Approx. 10^6	Ohm	DIN IEC 61340-5-1/2 DIN EN 61340-4-1

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.
- Cleanroom-suitable materials according to ISO 14644-1; VDI 2083 Part 17: ISO 4.
- 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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