

System F2

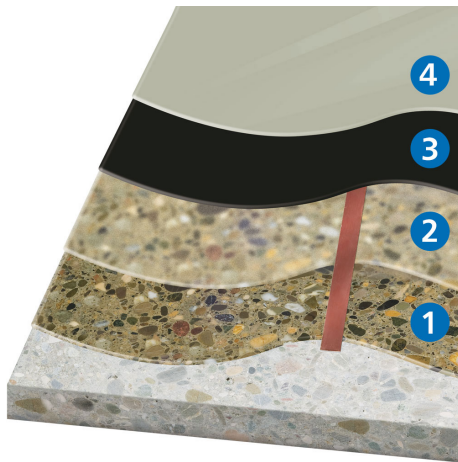
KLB CONDUCTIVE EP ESD Standard

Smooth, light-coloured and homogeneously conductive epoxy resin coating for increased requirements in ESD areas

The coating system F2 complies with all requirements on industrial applications exposed to medium stress, where an ESD protection is required.

This smooth coating is mainly used in the sector of electronics and electrical engineering. For commercial areas with medium mechanical load, the system is suitable for use in production or storage facilities, but without compliance with the site transition resistance.

Alternative systems: [System F5](#) for industrial applications with light to medium stress, [System F1](#) as system with EX protection.



4. Top coat **KLB-SYSTEM EPOXID EP 211 ESD**
3. Conductive layer **KLB-SYSTEM EPOXID EP 799 Ableitgrund** with copper strip **KLB-Kupferband** attached underneath
2. Scratch coat with **KLB-SYSTEM EPOXID EP 50** and mixed sand **KLB-Mischsand 2/1**
1. Primer **KLB-SYSTEM EPOXID EP 50**

System build-up

Layer	See product information for more details
Total layer thickness	approx. 1.5 - 2.0 mm
Top coat (4)	KLB-SYSTEM EPOXID EP 211 ESD
Conductive layer (3)	KLB-SYSTEM EPOXID EP 799 Ableitgrund , with copper strip KLB-Kupferband attached underneath
Scratch coat (2)	KLB-SYSTEM EPOXID EP 50* with mixed sand KLB-Mischsand 2/1
Primer (1)	KLB-SYSTEM EPOXID EP 50* <small>*alternatively, EP 52 Spezialgrund, EP 52 RAPID, etc. can be used</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
- Laboratory
- Storage and logistics
- Conductive floors (ESD)

Healthcare:

- Laboratory
- Pharmaceutical industry
- Clean room

Special solutions:

- ESD coatings (conductive)

System features

- impervious to fluids
- resistant to industrial trucks
- resistant to mechanical load
- rigid
- glossy
- smooth
- conductive (ESD)

Technical data

Bending tensile strength (EP 211 ESD)	35	N/mm ²	DIN EN 196/1
Compressive strength (EP 211 ESD)	55	N/mm ²	DIN EN 196/1
Shore-hardness D (EP 211 ESD)	76	-	DIN 53505 (after 7 days)
Abrasion (Taber Abraser) (EP 211 ESD)	45	mg	ASTM D4060 (CS10/1000)
Walking Body Model (EP 211 ESD)	< 100	V	DIN EN 61340-5-1
Person/footwear/flooring system (EP 211 ESD)	< 10 ⁹	Ohm	DIN EN 61340-5-1

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:

- Fire behaviour classification according to DIN EN 13501-01:2010-01: B_{fl}-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.
