System F6
KLB CONDUCTIVE LOW-VOC PU ESD Elastic

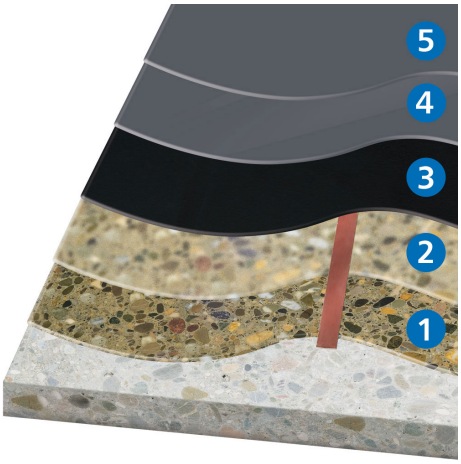
Low-emission, elastic, electrically conductive polyurethan resin coating for ESD and EX protection

The coating system F6 is able to fulfil the specific demands on electrical conductive floorings (ESD and EX protection) on substrates susceptible to deformation (e.g. mastic asphalt) for commercial and industrial areas.

The system is particularly used on surfaces with medium mechanical load such as in production or storage facilities as well as in the sector of electronics and electrical engineering that require explosion and personal protection.

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 F2 without any low-emission properties, System F8 for clean rooms.



5. Top sealer **KLB-SYSTEM POLYURETHAN PU 813 EL+/ESD**
4. Top coat **KLB-SYSTEM POLYURETHAN PU 413 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 sealer (5)	**KLB-SYSTEM POLYURETHAN PU 813 EL+/ESD**
Top coat (4)	**KLB-SYSTEM POLYURETHAN PU 413 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
- Laboratory
- Storage and logistics
- Conductive floors (ESD)

Special solutions:

- ESD coatings
- Low-emission coatings
- Anti static flooring

Technical data

Shore-hardness D (PU 413 EL+)	70	-	DIN 53505 (after 7 days)
Abrasion (Taber Abraser) (PU 813 EL+/ESD)	< 13	mg	ASTM D4060 (CS10/1000)

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.

- Chair castor test according to DIN EN 425:2002-08
- Classification of the fire behaviour according DIN EN 13501-01:2018: 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-koetztal.com. In addition, our "General Terms and Conditions“ apply.

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