

CONIFLOOR IEL ESD

(Industrial Epoxy Light ESD)

Hard, low emission, electrostatically, volume conductive thin layer floor coating based on epoxy resin (free of salt complex and fibres), for ESD protection areas (EPA) according to EN 61340-5-1, (4-1 u. 4-5) with light to medium heavy mechanical load, indoor



1	Primer
2	Scratch coat optional
3	Conductive layer with copper tape
4	ESD thin layer self-levelling coating, conductive

System design and consumption

LAYER	PRODUCT	CONSUMPTION (kg/m ²)	QS / FILLER (kg/m ²)	APPLICATION
1 Primer on strongly absorbent u. porous substrates, if necessary, 2-layer application *	CONIFLOOR EP 712 N / CONIFLOOR EP 110 N or others	0.3 – 0.5 * 2-layers if necessary or scratch coat	QS 03/08 0.8 – 1.0	Squeegee / roller / brush Sand broadcasting, not in excess
2 Scratch coat / levelling (optional)	CONIFLOOR EP 712 N / CONIFLOOR EP 110 N or others filled with QS 01/03	0.6 – 1.0 QS 01/03 MR ≤ 1:1	QS 03/08 2.0 – 3.0	Trowel / smoothing rake / notched trowel or squeegee Sand broadcasting, not in excess
3 Conductive layer with copper tape to earth point (can be installed without conductive layer, if necessary, see conductivity)	CONIFLOOR EP 150 AS incl. copper tape for earthing or copper tapes in a grid	0.1 – 0.12	none	Earthing copper tape on scratch coat (grinded) below the conductive layer, measure conductive layer before apply next coating!
4 Hard ESD coating, self-levelling, volume conductive. (free of salt complexes and fibres)	CONIFLOOR EP 436 ESD (do not fill!)	0.8 – 1.2	optional broadcasting with SIC for higher slip resistance (see test report)	Notched rubber squeegee / notched rubber rake on conductive layer, spike roller with conductive coatings mandatory! (light structure can be visible depending on substrate roughness and layer thickness)
5 ESD-topcoat, pigmented, matt, <u>optional</u>	CONIFLOOR PU 520 CW ESD	0.14 – 0.18	optional CONIFLOOR Ballotini (Ø see test report) for slip resistance	Roller, microfiber 11 mm
System layer thickness	ca. 0.7 – 1.0 mm (higher layer thickness possible or turn to CONIFLOOR IES ESD (N))			
Substrate	Surfaces must be clean, stable, and free of cracks and voids. In general, substrates must be provided in accordance with the applicable regulations. (See also "General processing guidelines for CONICA coatings, CONICA seals and CONICA parking deck coating systems"). Adhesive tensile strength ≥ 1.5 N / mm ² , max. Residual moisture ≤ 4% -CM, on cementitious substrates. Special precautions must be taken in the event of higher residual moisture levels and moisture by rising water. Preparation of the surface e.g. by grinding (diamond) or shot blasting (Blastrac) with subsequent sweeping and vacuuming is mandatory. The above-mentioned consumption values have been determined in the laboratory under practical conditions to achieve the technical properties. In the case of existing on-site conditions and conditions such as temperature, surface roughness etc., the consumption values may deviate from the stated values. In case of doubt, we recommend creating sample areas on site.			
Note	For other substrates, which are not mentioned here or special requirements, special primers must be used if necessary, please ask our technical service. Detailed processing instructions can be found in the respective product data sheets or are available on request. CONICA synthetic resins are intended exclusively for commercial use!			

High Performance Flooring

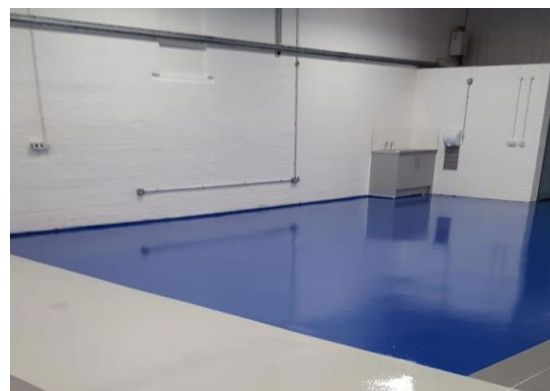
Sport | Decorative | Industrial | Playground

Areas of application

- Production halls with EPA-requirements (ESD) and light to medium load
- Pharmaceutical production areas
- Warehouses with EPA-requirements (ESD) and light to medium load
- Hospitals, medical practices, laboratories
- Electronic and automotive industry
- Technical ESD rooms

System properties

- **High UV and colour stability** with ESD topcoat
- **Conductive** accord. to EN 1081 and EN 61340-5-1 (4-1 and 4-5) with or without ESD topcoat **for ESD areas**
- **Free of ionic salt complexes and fibres**, permanent water resistant
- **Conductivity independent of layer thickness** of coating
- **Non-slip surfaces** R9 - R10 and PVT test
- **Accessible with light forklifts**, hand pallet trucks and the like
- **Hygienic**, seamless, and joint less installation
- Fire class **Bfl-s1**



Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Shore-Hardness	DIN ISO 868	82 D after 28 d (Topcoat)
Flexural strength	EN 196 / ASTM C109	ca. 58 N/mm ² (mortar prism)
Compressive strength	EN 196 / ASTM C109	ca. 67.4 N/mm ² (mortar prism)
Chemical resistance	EN ISO 2812-1	DiBT Test liquids 10, 11,12 others on request
Impact strength	DIN EN 13813	≥ 4 Nm (IR4)
Abrasion resistance (Taber)	ISO 9352, ASTM D 1044	≤ 25 mg (incl. topcoat)
Abrasion resistance (BCA)	DIN EN 13813	AR ≤ 0,5
Slip resistance	DGUV guideline 108-003 / DIN 51130	Class R9 / R10* Ballotini in topcoat
Adhesive strength	DIN ISO 4624	≥ 1,5 N/mm ² (Depends on substrate)
Fire classification	EN 13501-1	Bfl-s1 (tested in CONIFLOOR IES ESD)
Conductivity with or without ESD topcoat (Measurement with shoes Warmbier Electra mule size 45 and Abeba O2 UNI6 size 43, determined at 12% relative humidity / 23°C)	EN 1081 EN 61340-4-1 EN 61340-4-5 EN 61340-4-5	Rg ≤ 10 ⁶ Ω (≤ 10 ⁸ Ω without conductive layer) Rg ≤ 10 ⁹ Ω Rs ≤ 3.5 x 10 ⁷ Ω (new ≤ 10 ⁹ Ω) Body Voltage < 30 V (mind. < 100 V)

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