

CONIFLOOR IES-ESD (N)

(Industrial Epoxy System ESD new)

Hard, low-emission, electrostatically, volume conductive floor coating based on epoxy resin (free of salt complex and fibres), statically and mechanically resilient for ESD protection areas (EPA) according to EN 61340-5-1, (4-1 u. 4-5) indoor



1	Primer
2.1	Scratch coat optional
2.2	Levelling layer optional
3	Conductive layer with copper tape
4	ESD 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 *	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
2.1	Scratch coat / levelling (optional)	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
2.2	Pore sealer / levelling layer (recommend)	0.8 – 1.0	none	Trowel / smoothing rake / notched trowel or rake
3	Conductive layer with copper tape to earth point	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)	2.2 – 2.5	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!
5	ESD-topcoat, pigmented, matt, <u>optional</u>	0.14 – 0.18	optional CONIFLOOR Ballotini (Ø see test report) for slip resistance	Roller, microfiber 11 mm
System layer thickness		ca. 2.0 – 3.0 mm		
Subsoil		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..		

Areas of application

- Production halls with EPA-requirements (ESD)
- Pharmaceutical production areas
- Warehouses with EPA-requirements (ESD)
- Hospitals, medical practices, laboratories
- Electronic and automotive industry

System properties

- **Very 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 top coat for ESD areas
- **Free of ionic salt complexes and fibres**, permanent water resistant
- **Conductivity independent of layer thickness** of coating
- **Non-slip surfaces** R9 - R11 *
- **Accessible with forklifts**, hand pallet trucks and. the like
- **Hygienic**, seamless and joint less installation
- **Highly static loadable**
- Fire class **Bfl-s1**



Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Shore-Hardness	DIN ISO 868	82 D after 28 d
Flexural strength	EN 196 / ASTM C109	ca. 58 N/mm ²
Compressive strength	EN 196 / ASTM C109	ca. 67.4 N/mm ²
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. top coat)
Abrasion resistance (BCA)	DIN EN 13813	AR ≤ 0,5
Slip resistance	DGUV guide line 108-003 / DIN 51130	Class R9 / R10 / R11* Ballotini in top coat
Adhesive strength	DIN ISO 4624	≥ 1,5 N/mm ² (Depends on substrate)
Fire classification	EN 13501-1	B _{f1} -s1
Conductivity with or without ESD top coat	EN 1081 EN 61340-4-1 EN 61340-4-5 EN 61340-4-5	R _g ≤ 10 ⁶ Ω R _g ≤ 10 ⁹ Ω R _s ≤ 3.5 x 10 ⁷ Ω (new ≤ 10 ⁹ Ω) Body Voltage < 30 V (mind. < 100 V)

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