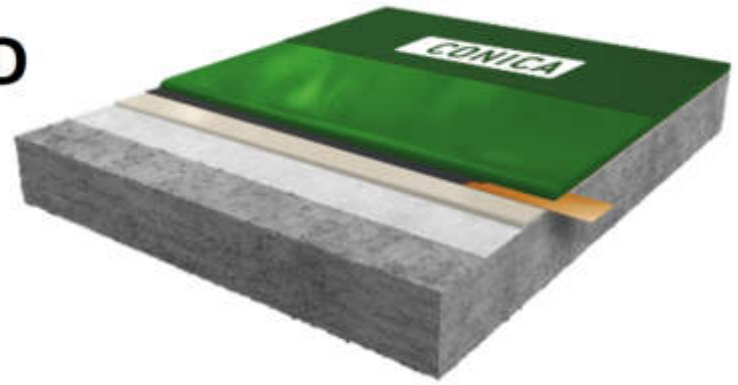


## CONIFLOOR IPS AS-ESD

(Industrial Polyurethane System Anti-Static-ESD)

Tough-hard, low-emission, electrostatically conductive floor coating based on polyurethane resin, static crack bridging, mechanically resilient for ESD protection areas (EPA) according to requirements EN 61340-5-1 indoors



1	Primer
2.1	Scratch coat optional
2.2	Levelling layer recommend
3	Conductive layer with copper tape
4	Conductive coating tough hard
5	ESD topcoat pigmented

### System design and consumption

LAYER	PRODUCT	CONSUMPTION (kg/m <sup>2</sup> )	QS / FILLER (kg/m <sup>2</sup> )	APPLICATION	
1	<b>Primer</b> on strongly absorbent u. porous substrates, if necessary, 2-layer application *	CONIFLOOR 110 / CONIFLOOR 116LE	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)	CONIFLOOR 110 / CONIFLOOR 116LE 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
2.2	Pore sealer / levelling layer (recommend)	CONIFLOOR 420	0.8 – 1.0	none	Trowel / smoothing rake / notched trowel or rake
3	<b>Conductive layer with copper tape to earth point</b>	CONIFLOOR 150 incl. copper tape for earthing	0.1 – 0.12	none	Earthing copper tape on scratch coat (grinded) below the conductive layer, measure conductive layer before apply next coating!
4	<b>Tough-hard coating self-levelling, conductive</b>	CONIFLOOR 420 AS (do not fill!)	2.2 – 2.5	none	Notched rubber squeegee / notched rubber rake on conductive layer, <b>spike roller</b> with conductive coatings <b>mandatory!</b>
5	<b>ESD-topcoat, pigmented, matt (mandatory for ESD!)</b>	CONIFLOOR 535 ESD	0.14 – 0.18	optional CONIFLOOR Ballotini (Ø see test reports for slip resistance)	Roller (11 mm pile height)
<b>System layer thickness</b>		ca. 2.0 – 3.0 mm			
<b>Subsoil</b>	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 <sup>2</sup> , 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.				
<b>Note</b>	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 areas with EPA-requirements (ESD)
- Pharmaceutical production areas
- Warehouses and high bay warehouses
- Hospitals, medical practices, laboratories, pharmaceutical production
- Technical areas, IT rooms

## System properties

- **Very high** UV and colour resistance with pigmented aliphatic top coat
- **Conductive** accord. EN 1081 and **EN 61340-5-1** (4-1 u. 4-5) for **ESD areas**
- Slip resistant surfaces R9 – R11
- **Trafficable** with forklift and pallet trucks and similar
- Warm to feet, also **suitable for floor heating**
- **Hygienic**, joint and seamless surfaces easy to clean
- Statically **crack bridging**
- Flame retardant class **B<sub>fl</sub>-s1**



## Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Statically crack bridging	EN 1062-7	Class A3 > 0.5 mm (achieved < 0,9 mm at 23°C)
Elongation at break (Coating)	DIN 53504	ca. 30 %
Shore-Hardness	DIN ISO 868	69 D after 28 d
Flexural strength	EN 196 / ASTM C109	ca. 28 N/mm <sup>2</sup>
Compressive strength	EN 196 / ASTM C109	ca. 51 N/mm <sup>2</sup>
Chemical resistance	EN ISO 2812-1	DiBT Test liquids 2, 3, 10, 11 other 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 guide line 108-003 / DIN 51130	Class R9 / R10 with SIC
Adhesive strength	DIN ISO 4624	≥ 1,5 N/mm <sup>2</sup> (Depends on substrate)
Fire classification	EN 13501-1	B <sub>fl</sub> -s1
Conductivity	EN 1081	R <sub>g</sub> ≤ 10 <sup>6</sup> Ω
	EN 61340-4-1	R <sub>g</sub> ≤ 10 <sup>9</sup> Ω
	EN 61340-4-5	R <sub>s</sub> ≤ 3.5 x 10 <sup>7</sup> Ω (new ≤ 10 <sup>9</sup> Ω)
	EN 61340-4-5	Body Voltage < 30 V (mind. < 100 V)

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The content of this information sheet is non-binding. With regard to the variety of surfaces and object conditions on the one hand, and on the other hand due to the fact that the application and processing of this product are beyond our control, the buyer and / or user is not released from the obligation to its own responsibility, to check and ensure, that this product is suitable for the intended use. Our verbal, written advice and tests is non-binding.

*With the publication of this issue, all previous information on this system is no longer up to date. Since the data sheets are updated regularly, it is the responsibility of the user to have the current version available. Registered users can download current data sheets from our homepage at any time. We would be happy to send them to you on request.*

## High Performance Flooring

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