

## CONIFLOOR IES AS

(Industrial Epoxy System Anti-Static)

Hard, low-emission, electrostatically conductive floor coating based on epoxy resin, statically and mechanically resilient for EX protection areas (ATEX) according to requirements EN 1081 and EN 61340-4-1 indoor



- 1 Primer
- 2.1 Scratch coat optional
- 2.2 Levelling layer optional
- 3 Conductive layer with copper tape
- 4 Conductive self-levelling coating

### 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 EP 110 / CONIFLOOR EP 112 or CONIFLOOR EP 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 EP 110 / CONIFLOOR EP 112 or CONIFLOOR EP 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 EP 430	0.8 – 1.0	none	Trowel / smoothing rake / notched trowel or rake
3	<b>Conductive layer with copper tape to earth point</b>	<b>CONIFLOOR EP 150</b> 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>Hard coating, self-levelling, conductive</b>	<b>CONIFLOOR EP 430 AS</b> (do not fill!)	2.2 – 2.5	optional broadcasting with SIC for higher slip resistance (see test report)	Notched rubber squeegee / notched rubber rake on conductive layer, <b>spike roller</b> with conductive coatings <b>mandatory!</b>
<b>System layer thickness</b>		<b>ca. 2.0 – 3.0 mm</b>			
<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..			

## Area of application

- Production halls with EX protection requirements (ATEX)
- Hospitals, operation rooms, medical practices
- Warehouses and high bay ware houses with ATEX requirements
- Laboratories and clean rooms
- Technical rooms

## System properties

- **Good** colour stability (indoor)
- **Conductive** according to EN 1081 and EN 61340-4-1 for EX protection areas
- R9 - R10 **non-slip surfaces**
- **Accessible with forklifts, hand pallet trucks and similar**
- **Easy to clean**, seamless and joint less surface
- **Highly** static load e.g. high-bay warehouse
- Fire class **Bfl-s1**



## Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Shore-Hardness	DIN ISO 868	81 D after 28 d
Flexural strength	EN 196 / ASTM C109	ca. 58 N/mm <sup>2</sup>
Compressive strength	EN 196 / ASTM C109	ca. 66.8 N/mm <sup>2</sup>
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	≤ 58 mg
Abrasion resistance (BCA)	DIN EN 13813	AR ≤ 1,0
Slip resistance	DGUV guide line 108-003 / DIN 51130	Class R9 / R10
Adhesive strength	DIN ISO 4624	≥ 1,5 N/mm <sup>2</sup> (Depends on substrate)
Fire classification	EN 13501-1	Bfl-s1
Conductivity	EN 1081	Rg ≤ 10 <sup>6</sup> Ω
	EN 61340-4-1	Rg ≤ 10 <sup>9</sup> Ω

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*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.*