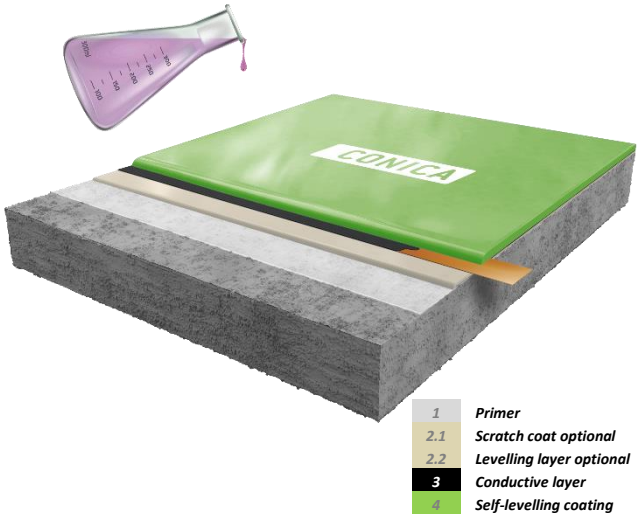
CONIFLOOR IEC AS

(Industrial Epoxy Chemical Resistant Anti-Static)

Hard, low-emission floor coating based on epoxy resin, chemically highly resistant, static crack bridging and mechanically medium-heavy load, for ATEX-areas according to EN 1081 and EN 61340-4-1 for indoor use



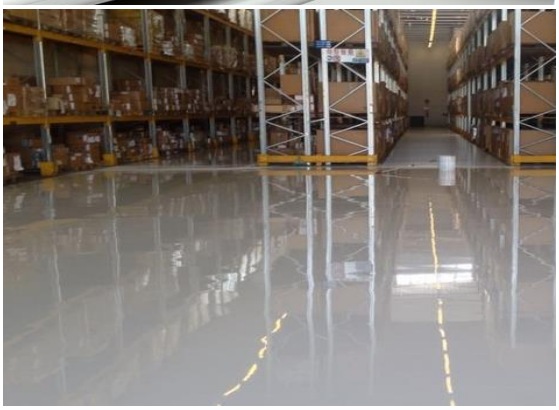
System design and consumption

	LAYER	PRODUCT	CONSUMPTION (kg/m²)	QS / FILLER (kg/m²)	APPLICATION
1	**Primer** on strongly absorbent u. porous substrates, if necessary, 2-layer application *	**CONIFLOOR EP 110 / CONIFLOOR EP 125 CR** 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
2.1	Scratch coat / levelling (optional)	CONIFLOOR EP 110 / CONIFLOOR EP 125 CR 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
2.2	Pore sealer / levelling layer (optional / alternative)	CONIFLOOR EP 455 CR	0.8 – 1.0	none	Trowel / smoothing rake / notched trowel or rake
3	**Conductive layer with copper tape for earth points**	**CONIFLOOR EP 155 CR AS** incl. copper tape for earth points	0.1 – 0.12	none	Earthing copper tape on scratch coat (grinded) below the conductive layer, measure conductive layer before applying next coating!
4	**Hard self-levelling coating, chemically highly resistant, statically crack bridging, conductive**	**CONIFLOOR EP 455 CR AS**	2.5 – 3.0	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 (optional, without high chemical resistance)	CONIFLOOR 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. 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 / mm², 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.			

SYSTEM DATA SHEET

Areas of application

- Production halls with chemical load and ATEX requirements
- Pharmaceutical production areas with ATEX requirements
- Warehouses and high bay warehouses with chemical load and ATEX
- Hospitals (OP, emergency rooms), medical centres, laboratories
- Electronic and automotive industry



System properties

- **Conductive** accord. to EN 1081 and EN 61340-4-1 for ATEX areas
- **Good** colour stability indoor
- **Diverse colours** according to RAL, glossy or matt with topcoat
- **Low emission**
- Slip resistant surfaces R9 – R10
- **Trafficable** with forklift and pallet trucks and similar
- **Chemically high resistant** (Chemicals on request)
- **Hygienic**, joint and seamless surfaces easy to clean
- **Statically crack bridging up to 0.4 mm**
- Flame retardant class **B_{fl}-s1**

Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Crack bridging	DIN EN 1062-7	A2 min. 0.4 mm / 23°C (> 0.25 mm)
Shore-hardness	DIN ISO 868	≤ 78 D after 28 d
Flexural strength	EN 196 / ASTM C109	ca. 44 N/mm²
Compressive strength	EN 196 / ASTM C109	ca. 59,5 N/mm²
Chemical resistance	EN ISO 2812-1	DiBT Test liquids 1a, 3c, 4, 4a, 5a, 6a, 7, 7b, 8a, 9, 9a, 10, 11, 12, 13, 14, 15, E85, E10 others on request
Impact strength	DIN EN 13813	≥ 4 Nm (IR4)
Abrasion resistance (Taber)	ISO 9352, ASTM D 1044	≤ 67 mg
Abrasion resistance (BCA)	DIN EN 13813	AR ≤ 0,5
Slip resistance	DGUV Regel 108-003 / DIN 51130	Class R9 / R10* (with topcoat or SIC)
Adhesive strength	DIN ISO 4624	≥ 1,5 N/mm² (depends on substrate)
Fire classification	EN 13501-1	B_{fl}-s1
Conductivity	EN 1081 EN 61340-4-1	Rg ≤ 10^6 Ω Rg ≤ 10^9 Ω

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