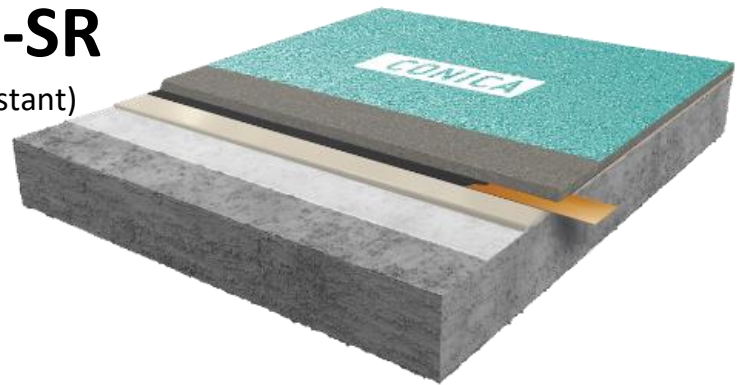


## CONIFLOOR IES AS-ESD-SR

(Industrial Epoxy System Anti-Static/ESD - Slip Resistant)

Hard, conductive, low-emission floor coating based on epoxy resin, static u. high mechanical resistance, slip-resistant (R10 - R12) for dry and wet areas with requirements according to EN 61340-5-1 (ESD) or EN 1081 (ATEX), for indoor and partially outdoor use



1	Primer
2.1	Scratch coat optional
2.2	Levelling layer optional
3	Conductive layer with copper tape
4	Conductive wear coat with SIC
5	Topcoat

### 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>Hart wear coat, conductive, broadcast with conductive quartz sand mixture (MR on request)</b>	<b>CONIFLOOR EP 436 ESD</b>	1.2 – 1.6 on broadcast primer 1.5 – 1.8	QS 03/08 + SIC Ø F24 MR on request or other min. 4.5 – 6.0 in excess	Notched rubber squeegee / notched rubber rake on conductive layer, to reduce slip resistance grinding and vacuum cleaning
5	<b>Topcoat, pigmented, glossy</b>	<b>CONIFLOOR EP 430 / CONIFLOOR EP 570 C / CONIFLOOR 585/1 C</b>	0.5 – 0.9	none	Trowel / Squeegee / Rubber spatula  Re-rolling recommend
<b>System layer thickness</b>		<b>ca. 2.0 – 3.5 mm (higher layer thickness if necessary possible)</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.			

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## Areas of application

- Production areas with wet conditions and EX protection (ATEX) or ESD requirements (EPA)
- Warehouses and logistic areas (ATEX and/or EPA)
- Hangars and truck garages
- Ramps, filling station, gas stations
- Workshops

## System properties

- **Variety of colours** according to RAL and NCS **with visual restrictions (SIC)**
- **Low emission tested system components** according to AgBB
- **Non-slip surfaces** R10 - R12 or higher
- **Accessible with forklifts**, hand pallet trucks, cars and. the like
- **Hard**, also suitable for high mechanical loads
- **Conductive** according to EN 61340-4-1 and EN 1081 **for ATEX areas**
- **Dissipative** according to EN 61340-5-1 (4-1 and 4-5) **for ESD zones (EPA)**
- 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. 54 N/mm <sup>2</sup>
Compressive strength	EN 196 / ASTM C109	ca. 69 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 guideline 108-003 / DIN 51130	Class R10, R11, R12-V4 / R13-V10
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 (Values with the conductive quartz sand mixtures recommended by CONICA)	EN 1081 EN 61340-4-1 EN 61340-4-5 EN 61340-4-5	R <sub>g</sub> ≤ 10 <sup>6</sup> Ω R <sub>g</sub> ≤ 10 <sup>9</sup> Ω R <sub>s</sub> ≤ 3.5 x 10 <sup>7</sup> Ω (neu ≤ 10 <sup>9</sup> Ω) Body Voltage < 35 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.*

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