

CONIFLOOR IET ESD N

(Industrial Epoxy Texture ESD)

Hard, electrostatically volume conductive (free of salt complexes and fibres) ESD-structure coating based on epoxy resin, thin layer and economical, for light to medium mechanical loads, for ESD protected areas (EPA) accord. to EN 61340-5-1, indoor



1	Primer
2	Scratch coat optional
3	Conductive layer optional / copper tape
4	Volume conductive structured ESD coating

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 *	CONIFLOOR EP 712 / CONIFLOOR EP 716 / CONIFLOOR EP 112 / CONIFLOOR EP 110	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 712 / CONIFLOOR EP 716 / CONIFLOOR EP 112 / CONIFLOOR EP 110 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 430 if necessary filled with QS 01/03	0.6 – 1.0 MR ≤ 1:0.5	none	Trowel / smoothing rake / notched trowel or rake
3	Copper tapes in the grid of 8 – 10 m with connection to the earthing point (optional) <u>Conductive layer, here not mandatory, increase the conductivity</u>	Self-adhesive copper tapes e.g. 3 M or Multitool CONIFLOOR EP 150 optional	0.1 – 0.12	none	Grounding tapes on primer or scratch coat, (sanded) if necessary below the following layer, control measurement of copper tapes or conductive layer before the next layer!
4	Conductive hard ESD structure coating, volume conductive with (orange skin) free of salt complexes and fibres	CONIFLOOR EP 436 ESD filled with CONIFLOOR 940 thixotropic agent	0.6 – 0.8 If necessary, add SIC F24 / F40 to increase slip resistance	optional 10 - 15 wt-% SIC F24 or 20 - 25 wt-% add SIC F40 as a hard grain	Notched trowel / notched rake / smoothing trowel with QS Re-roll with structure roller (yellow foam middle or coarse) depending on consumption, re- roll in in one direction
	System layer thickness	ca. 0.5 – 1.0 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.			
	Notes	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 light to medium mechanical load and dry to moderate wet use and requirements to ESD (EPA)
- Storage areas with light mechanical load and requirements to ESD (EPA)
- Electronically and pharmaceutical production areas with ESD requirements
- Technical rooms and corridors
- Wall surfaces in EPA
- Re-Topping of existing AS or non AS coatings for ESD requirements

System properties

- **Good** colour resistance (indoor)
- **Wide range of colours** accord. to RAL
- **Volume conductive** accord. to EN 1081 and EN 61340-5-1 (4-1 u. 4-5) for ESD areas (with or without conductive layer), free of salt and fibres
- **Conductive layer not mandatory**, copper tapes in grid
- Slip resistant surfaces R9 – R11
- **Trafficable** with forklift and pallet trucks (Vulcollan wheels) and similar
- **For light to moderate mechanical load**
- **Hygienic**, seam less and joint less application



Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Shore-Hardness	DIN ISO 868	81 D after 28 d
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	≤ 65 mg (incl. top coat)
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 ² (Depends on substrate)
Fire classification	EN 13501-1	NPD
Volume conductivity (Measurement with shoes Warmbier Electra mule size 45 and Abeba O2 UNI6 size 43, determined at 12% relative humidity / 23°C)	EN 1081 EN 61340-4-1 EN 61340-4-5 EN 61340-4-5	Rg ≤ 10 ⁶ Ω Rg ≤ 10 ⁹ Ω Rs ≤ 3.5 x 10 ⁷ Ω (new ≤ 10 ⁹ Ω) Body Voltage < 30 V (min. < 100 V)

CONICA AG
Industriestrasse 26
8207 Schaffhausen/ Swiss
Tel. +41 (0)52 644 36 00
Fax +41 (0)52 644 36 99
info@conica.com
www.conica.com

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