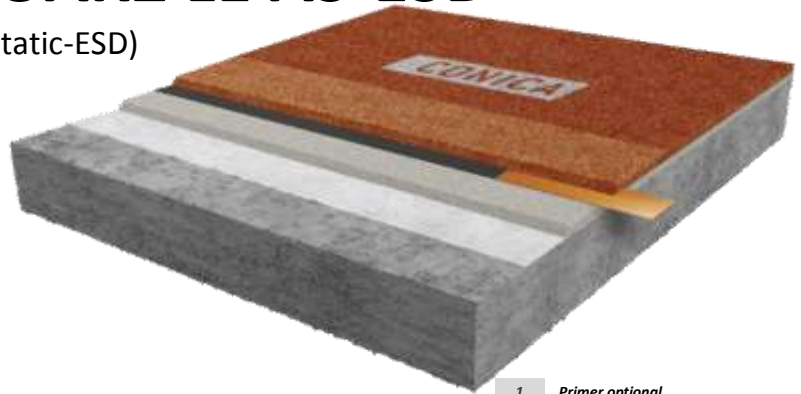


## CONIFLOOR COLORQUARZ LE AS-ESD

(Colorquarz Epoxy System Low Emission Anti-Static-ESD)

Hard, decorative, conductive and low-emission coloured quartz floor coating based on epoxy resin and Polyaspartic resin, static and high mechanical strength, anti-slip R9 - R12 for dry and wet areas with ATEX requirements according to EN 61340-4-1 or EN 1081 and ESD requirements according to EN 61340-5-1, for indoor use



1	Primer optional
2	Scratch primer / Levelling
3	Conductive layer with copper tape
4	Conductive wear coat with coloured QS
5	Top coat transparent

### System design and consumption

LAYER	PRODUCT	CONSUMPTION (kg/m <sup>2</sup> )	QS / FILLER (kg/m <sup>2</sup> )	APPLICATION	
1	Primer / blocking primer (optional) on strongly absorbent u. porous substrates, or as blocking primer	CONIFLOOR 116 LE	0.3 – 0.5 as blocking primer min. 0.5 – 0.6 (film forming)	QS 03/08 0.8 – 1.0 no QS scattering as blocking primer	Squeegee / roller / brush Sand broadcasting, not in excess, as <b>blocking primer no sand scattering!</b>
2	Scratch primer / levelling	CONIFLOOR 116 LE filled with QS 01/03 filled with QS 03/08 or QS 06/12  QS 03/08 scattering in excess	0.8 (resin) 0.6 (QS 01/03) 0.2 (QS 03/08) or 0.2 (QS 06/12)  03/08 in excess	QS 01/03 for filling QS 03/08 for filling or QS 06/12 for filling  Scattering of QS 03/08 ≥ 3.0 – 4.0	Trowel / smoothing rake, scratched on biggest grain  Scattering in excess, after curing sweeping not integrated QS and grinding and vacuum cleaning
3	Conductive layer with copper tape to earth point	CONIFLOOR 150 + 5 % water incl. copper tape for earth connection	0.16 – 0.18	none	With broadcast surface grind in area where copper tape must installed, control measurement of conductive layer before next layer!
4	Conductive, decorative wear coat broadcast with conductive coloured quartz sand	CONIFLOOR 436 ESD filled with QS 03/08  Dissipative coloured quartz sand 04/08 mm broadcast in excess	0.8 – 1.0 (resin) 0.08-0.1 (QS 03/08)  Dissipative coloured quartz sand 04/08 mm broadcast in excess	QS 03/08 filling  Broadcasting dissipative coloured QS in excess appr 3.5 – 4.0	Trowel / smoothing rake, scratched on biggest grain  Broadcasting in excess, after curing remove not bound QS and slightly to strong grinding and vacuum cleaning
5	Top coat transparent, glossy, UV- and colour stable, fast curing	CONIFLOOR 585 or 585/1 transparent in 1* or 2** layers	0.5 – 0.9*  0.4 – 0.5** + 0.15 – 0.3**	none	Trowel / Soft or hard squeegee or spatula  Re-rolling recommend (within 3 – 5 minutes!)
System layer thickness		ca. 2.0 – 4.5 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<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.

#### 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..

## Areas of application

- Production halls with requirements to ATEX and dry to wet conditions
- Production halls with requirements to ESD and dry to wet conditions
- Workshops, precision engineering e.g. watch manufactures
- Pharmaceutical productions
- Electronic and automotive industries

## System properties

- **Good up to high UV-** and colour stability
- **Conductive** accord. EN 61340-4-1 and EN 1081 **for ATEX areas**
- **Conductive** accord. EN 61340-5-1 (4-1 and 4-5) **for ESD areas (EPA)**
- **Wide range of colours** with conductive coloured quartz sand mixtures
- **Low emission**
- **Anti-slip surfaces** R9 – R12
- **Trafficable with fork lift, hand pallet truck, car and similar**
- Hard, also for high mechanical load suitable
- **Hygienic**, joint less and seamless surfaces
- **Seamless connection to vertical building parts**
- Fire classification **B<sub>fl</sub>-s1**



## Technical data (internal / external approvals)

PROPERTIES	STANDARD	VALUES
Shore-Hardness	DIN ISO 868	67 D after 28 d
Flexural strength	EN 196 / ASTM C109	ca. 42 N/mm <sup>2</sup>
Compressive strength	EN 196 / ASTM C109	ca. 65.5 N/mm <sup>2</sup>
Chemical resistance	EN ISO 2812-1	DiBT test liquids 10, 11,12 and others
Impact strength	DIN EN 13813	≥ 4 Nm (IR4)
Abrasion resistance (Taber)	ISO 9352, ASTM D 1044	≤ 62 mg (incl. top coat)
Abrasion resistance (BCA)	DIN EN 13813	AR ≤ 1,0
Slip resistance	DGUV Regel 108-003 / DIN 51130	Class R9 / R10 / R11-V4 / R12-V6
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 EN 61340-4-1 EN 61340-4-5 EN 61340-4-5	Rg ≤ 10 <sup>6</sup> Ω Rg ≤ 10 <sup>9</sup> Ω Rs ≤ 10 <sup>9</sup> Ω u. ≤ 3,5 x 10 <sup>7</sup> Ω Body Voltage < 100 V

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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.*