

Project Report/March 2024

Protection from Electrostatic Discharge for ETpathfinder at Maastricht University

ETpathfinder is a research and development facility of Maastricht University – ET in this case stands for Einstein Telescope, the first of its kind in a new class of future gravitational wave observatories. Simply put, ET captures signals created by the collision of stars and black holes in the universe.

Highly sensitive technology like this requires a high-quality floor coating that protects it from electrostatic discharges. Furthermore, electrostatic potentials can have an attractive effect on small particles such as dust. Both can cause costly damage or contamination to sensitive components. The laboratory hall was designed like a clean room. For the floor, the client's team of experts chose the electrically conductive thick coating system **StoFloor ESD KU 611**. Its target is to dissipate the generated charges into the ground.

The StoFloor ESD KU 611 system structure chosen here with the StoPox WL 110 conductive layer and the StoPur WV 210 sealing coat meets the requirements for ESD protection according to DIN EN 61340-5-1 as well as explosion protection according to TRGS 727. Its surface is chemical and mechanical highly resistant and it can be decontaminated very easily. In addition, the ESD coating is low in emissions.

Properties of **StoFloor ESD KU 611**

- StoCretec epoxy resin coating system
- Electrically conductive
- For substrates made of concrete and cementitious screed, others on request
- Mechanically and chemically highly resistant to a large number of special substances
- Can be driven on with Vulkollan or solid rubber tyres
- Low-emission

- Easily de-contaminable
- FDA tested in accordance with 21 CFR§175.300
- In accordance with EN 1504-2 und EN 13813
- Various test certificated are available for slip-resistance
- Tested system build-up with external monitoring
- Very high colour stability

Who & What

Project:	ESD floor coating institute for scientific research, NL	
Investor:	Maastricht University, Maastricht, NL	
Planner:	Jansen Cleanrooms, Jansen Group, Oudsbergen, BE	
Applicator:	Art Tech Beton bvba, Neufvilles, BE	
Realisation:	10/2023	
StoCretec Competence:	StoFloor ESD KU 611	
	Primer and	
	Levelling coat	StoPox GH 205
	Conductive coper tape	StoDivers LB 100
	Conductive layer	StoPox WL 110
	Coating	StoPox KU 611
	Sealing coat	StoPur WV 210

Photos: MVL Media Group, BE





