

Project Report/April 2026

High-performance StoCretec Flooring Coating Solutions for Hyperscaler

A leading provider has now built a data centre in Malaysia for his hyperscaler customers. It is specifically designed to offer its customers a very large and scalable infrastructure for processing huge volumes of data.

On the more than 4,000 square metres of floor area in the server rooms, the client protects its sensitive systems from possible damage caused by electrostatic potentials with the electrically conductive **StoFloor ESD KU 611** coating system.

The building owner decided for around 11,000 square metres of floor area in the technical rooms and corridors of the data centre to be fitted with the tried-and-tested **StoFloor Industry BB OS** coating system.

Prevent damage from electrostatic discharge

Our StoFloor ESD KU 611 offers, depending on the system structure, reliable solutions for explosion protection, electrostatic discharge protection and personal protection. The coating system reliably discharges generated electrical loads into the ground. For example, electrostatic potentials can attract small particles such as dust. This may lead to expensive damage or contamination of sensitive computer components. Further, the coating system is highly mechanically and chemically resistant. The epoxy resin coating StoPox KU 611 has excellent flow and de-airing properties. The material can be applied without any problems under the climatic conditions in Malaysia.

Reliable, durable and tried and tested

The versatile StoCretec epoxy resin system is suitable for, amongst other things, production areas, warehouses or high-traffic public and commercial spaces. Its surface is highly resistant to both mechanical and chemical stress and it can be adjusted to different slip resistance classes depending on the individual floor requirements. A textured surface was required for the data centre.

Furthermore, **StoFloor Industry BB OS** has limited combustibility and thus meets the fire safety requirements for a high-tech facility. Additionally, the excellent application properties of the pre-filled

primer StoPox GH 532 and the floor coating StoPox BB OS contributed to the decision to apply this system. Both materials are easy to apply, allow for excellent de-airing and adhere reliably to the substrate.

The application applied an additional vapour barrier to the floor slab on the ground floor. Rising damp from the substrate - for example in new concrete in new buildings or due to a high groundwater level - can lead to bubble formation and detachment of the floor coating. The specialist company first primed the substrate with the water-based epoxy resin StoPox WG 100. The material is water vapour permeable and ensures optimum adhesive bond of the subsequent intermediate coat StoCrete MB 100. The local Malaysian product reliably seals the substrate and thus ensures the permanent functionality of the final coat.

Properties of **StoFloor ESD KU 611**

- EP coating build-up
- For ESD-protected areas, server rooms, battery rooms, potentially explosive areas and production halls and storage areas for electronic components
- For production halls in the automotive industry
- Electrically conductive
- Depending on the system build-up: System resistance $< 10^9$ ohms · Voltage on a person < 100 volts · Personal protection · Resistance to ground $< 10^8$ ohms
- High chemical resistance against a large number of special media
- Mechanically resistant
- Limited combustibility system build-up
- Very good ease of decontamination
- Very high colour stability
- Tested system build-up with voluntary external monitoring
- In accordance with EN 1504-2 and EN 13813

Properties of **StoFloor Industry BB OS**

- StoCretec EP floor coating build-up

- For production areas in the automotive industry and their suppliers
- For storage areas
- For commercially-used hall areas
- Tested system configuration available for laboratories and cleanrooms
- Tested system configuration available for production areas in the food industry
- For concrete, cement screed and calcium sulphate screed substrates
- Tested for rising damp
- High mechanical resistance
- High chemical resistance
- Low-emission system structures available in accordance with the criteria of the German Committee for the Health Assessment of Building Products (AgBB)
- Very easy to decontaminate
- Easy to clean
- Limited combustibility system build-up
- In accordance with EN 1504-2 and EN 13813
- Large number of long-term references
- Colour spectrum: RAL colour chart K 5, StoColor System, NCS, and others possible

Who & What

Reference name: Floor coating for data centre, MY

Realisation: 08/2025

StoCretec competence: Server rooms
StoFloor ESD KU 611
Primer StoPox GH 205
Levelling coat StoPox GH 205
Grounding StoDivers LS
Conductive layer StoPox WL 110
Coating StoPox KU 611

Corridors and plant rooms

StoFloor Industry BB OS

Primer StoPox GH 532
Coating + StoPox BB OS + StoQuarz
Sealing coat

Ground floor

Primer StoPox WG 100
Coating StoCrete MB 100 (local product)
comparable to StoCrete EH 200

Primer StoPox GH 532
Coating + StoPox BB OS +StoQuarz
Sealing coat

TNB Room*

Primer StoPox GH 532
Coating StoPox BB (local product)
comparable to StoPox KU 601

Photos: Sto SEA Sdn. Bhd., MY

*TNB room: in Malaysia, a special room with strict access controls designed to protect the power supply and electrical infrastructure, housing the energy supplier's main switchgear, transformers and meters. (TNB = National Energy Corporation)







