

Project Report/August 2024

New Thermoplan production location in Switzerland with StoCretec Floor Coatings

Thermoplan AG in Weggis in the canton of Lucerne in Switzerland develops and produces high-quality professional fully automatic coffee machines for the gastronomy and other professions. The family business operates worldwide, but according to its own working identity, it still is "a Swiss-made company through and through": The company manufactures the fully automatic coffee machines in Weggis, with around 80 percent of the suppliers utilised being Swiss manufactures.

In the summer of 2024, Thermoplan opened its fifth plant, called "unique", at its home venue doubling its weekly production capacity with five additional integrated production areas as well as logistics facilities and office space. The modern production and all workplaces were set up according to the latest standards. The investor attached great importance to an electrostatically conductive floor coating in its production and assembly areas in order to protect the sensitive components. The decisive factor here was the guaranteed conductivity values even at a relative humidity of 12 percent. To ensure safe walking, the floor should have slip-resistance class R10.

Our StoCretec electrically conductive coating system **StoFloor ESD KU 614**, with its excellent properties and its cost-effectiveness, was able to meet the requirements of this construction project. The approximately 6,000 square metres of floor space in the new production line were equipped with our volume-conductive system.

Conductive Floor with State-of-the-art Technology

StoFloor ESD KU 614 meets all common ESD standards. Its ESD performance and mechanical resistance are excellent. An additional sealing coat is not required. This saves time during installation. The conductivity of the StoPox KU 614 epoxy resin coating is almost independent of the relative humidity. Even at a low humidity of 12 %, the requirements of the relevant ESD standards for conductivity are perfectly met. The epoxy resin, which is available in numerous colours, is not only functionally impressive. The absence of carbon fibres leads to a homogeneous appearance and enables light colours. The material offers very good flow properties and

low consumption. StoPox KU 614 is used primarily on mineral substrates in new buildings and for floor coating refurbishments.

For the approximately 4,000 square metres of corridors and hallways of the new production and office building, a robust and resilient floor coating was planned that shall withstand the daily hustle and bustle. Durability and a high-quality appearance were also decisive criteria. Our StoCretec all-rounder **StoFloor Industry BB OS** offered the best solution. The resistant floor coating system is low in emissions, durable and radon-tight. With the StoDivers matting agent (StoDivers Mattierungsmittel), it is made slip-resistant (class R10), ensuring additional safety in the bright rooms. **StoFloor Industry BB OS** is equally suitable for pedestrian traffic and transport vehicles. The self-levelling epoxy resin system has already proven its reliable functionality in numerous projects for many years.

Properties of **StoFloor ESD KU 614**

- StoCretec EP floor coating system
- For production areas and storage areas of electronic components, ESD-protected areas, cleanrooms, server rooms and rooms with highly sensitive electronic equipment
- Electrically volume-conductive
- Body voltage in accordance with EN 61340-4-5 < 100 Volt also at 12 % humidity
- System resistance in accordance with EN 61340-4-5 < 1 Gigaohm also at 12 % humidity
- High mechanical resistance
- Can be driven on with polyamide, Vulkollan, or solid rubber tyres
- Limited combustibility system build-up
- Chemical resistant against a large number of chemicals
- Salt-free, no ionic liquids
- Good cleanability
- In accordance with EN 1504-2 und EN 13831
- For concrete, cementitious screed, calcium sulphate screed substrates, others on request
- Colour spectrum: RAL colour fan K5, NCS and others

Properties of **StoFloor Industry BB OS**

- StoCretec EP coating build-up
- For universal application
- For commercially-used hall areas, production areas in the food-processing industry, laboratories and cleanrooms as well as storage areas
- Low emission
- Resistant to severe chemical attack
- Resistance to disinfectants, TÜV SÜD certified
- High mechanical resistance, impact strength class I (ISO 6272-1)
- Very good ease of decontamination, good cleanability
- Can be driven on with polyamide, Vulkollan, or solid rubber tires
- Limited combustibility system build-up
- In accordance with EN 1504-2 und EN 13813
- FDA-tested in accordance with 21 CFR § 175.300
- CSM cleanroom qualification Fraunhofer Institut IPA, DE
- Radon-tight in accordance with IAF measurement Radeberg, DE
- Various test certificates regarding slip resistance are available
- Colour spectrum: RAL colour fan K5, StoColor System, NCS, and others
- Large number of long-term references

Who & What

Project:	New production and office building, Weggis, CH
Investor:	Thermoplan AG, Weggis, CH
Planner:	Aldoplan AG Architektur, Weggis, CH
Applicator:	Effi Bau AG, Zug, CH
Realisation:	5/2024

StoCretec Competence:	Production StoFloor ESD KU 614 Primer Quartz sand Conductive layer Coating Broadcasting	StoPox GH 205 filled with StoQuarz 0,1 - 0,5 mm StoPox WL 110 StoPox KU 614 StoDivers Mattierungsmittel
	Corridors and hallways StoFloor Industry BB OS Primer Levelling coat Coating Broadcasting	StoPox GH 205 StoPox GH 205 + StoQuarz StoPox BB OS StoDivers Mattierungsmittel

Photos: Fotowerder.ch











